

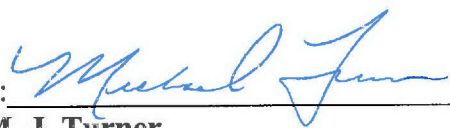
SIGNATURES

Approval:  Date: 5/2/16
~~G. T. Tebb~~ Alex Smith
Ecology IAMIT Representative

Approval:  for BNV Date: 4-18-16
R. J. Corey
DOE-RL IAMIT Representative

Approval:  Date: 4/21/16
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EPA IAMIT Representative

Minutes Prepared by:

Approval:  Date: 4/18/16
M. J. Turner
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River Corridor/Central Plateau Milestone Review
March 17, 2016
AGENDA

Chairperson: Ray Corey

Time	Milestones	Subject	DOE Presenter
8:30 a.m.	M-83	PFP Closure	Tom Teynor
8:40 a.m.	M-16 and 93	100 K Remediation	Roger Quintero
8:50 a.m.	M-16, 89, 93 and 94	River Corridor Closure	Bryan Foley
9:00 a.m.	M-35	Biennial assessments of information and data access needs for Hanford regulators	Ben Ellison
9:10 a.m.	M-36	Lifecycle Report	Shannon Ortiz
9:15 a.m.	M-26	Land Disposal Restrictions Report	Mike Collins
9:25 a.m.	M-91	Acquisition of Facilities to TSD TRU/TRUM and LLMW	Mike Collins
9:35 a.m.	M-16 and 85	Central Plateau Remediation	Al Farabee
9:45 a.m.	M-15, 16, 24, 37 and 85	Soil and Groundwater Remediation	Mike Cline
9:55 a.m.		RL Key Documents List	Mike Cline
10:00		Adjourn	

*TPA River Corridor/Central Plateau Quarterly
Milestone Review Meeting
March 17, 2016*

<u>Name</u>	<u>Organization</u>
Jane I Borglese	CHPRC
Michael Turner	MSA
Nina Menard	ECY
Anthony Cink	DOE
John Price	Ecology
Al Farabee	DOE
Kathy Knox	KREPORT
ROB STARR	MSA-TPA
Bryan Foley	DOE-RL
MOSTAFA KAMAL	DOE-RL
DENNIS FAULK	EPA
Dib Goswami	Ecology
Stephanie Schleif	ECY
RAY COREY	DOE-RL
Roger Gunters	DOE-RL
Jeff Lerch	WCH
Michael Collins	DOE-RL
Debi Ganwich	DOE-RL
Benjamin Vannah	DOE-RL
Jneresa Howell	WCH
Deborah Singleton	Ecology

*TPA River Corridor/Central Plateau Quarterly
Milestone Review Meeting
March 17, 2016*

Name _____

Organization

Shannon

DOE-RL-AMR

KEN MOSER

N5A-NFM

BEY ELIS

POE

Kelantan Aben Th

DoE

Michael Cline

DOE

Tom Teyner

Doi

**River Corridor/Central Plateau
Tri-Party Agreement Quarterly Milestone Review
Meeting Minutes
March 17, 2016**

**Plutonium Finishing Plant (PFP) Closure Project – Tri-Party Agreement
(TPA) Milestone M-083**

Milestone Summary – U.S. Department of Energy (DOE) Richland Operations (RL) reported that milestone M-083-00A continues to be at risk, more so than was reported last quarter, due to a number of safety issues experienced with the high hazard work at PFP during the first quarter of fiscal year (FY) 2016. DOE-RL stated that the contractor has since decided that it was prudent to minimize worker risk by reducing the number of high hazard jobs being performed simultaneously, and they are now being done in sequence. DOE-RL stated that one of the high hazard jobs may be ending today or tomorrow that is associated with the HA-9A high risk glovebox in the Remote Mechanical A (RMA) line. The fixative application on the glovebox was completed, and sample characterization is being done to determine whether the workers can get off the fresh air job. DOE-RL noted that the work is one of the three fresh air jobs that will be done.

DOE-RL stated that the other work under way is primarily in the Plutonium Reclamation Facility (PRF) as part of the contractor's resequencing of work, and is where another high risk fresh air job is being performed in the canyon. DOE-RL stated that the strong backs that held the pencil tanks have been vacuumed, and the contractor is working with safeguards and security to determine whether all of the necessary material has been removed in order to go to the next step of safeguards and security determination. A fixative paint is scheduled to be applied to the floor today to help seal it, and if the safeguards and security determination is made, the walls will be pressure washed using a small volume of water of about two to three gallons per minute. The high pressure wash will be used to hit the hot spots to decontaminate the walls, which were identified last year with the gamma cube, energy level sourcing of the walls. DOE-RL stated that once that is completed and it's been verified that enough material was removed, the workers will move on to other stages with the gallery gloveboxes, etc.

DOE-RL stated there has been slow, steady process, which has resulted in the benefit of a reduced number of safety incidents. DOE-RL noted there have been no skin contaminations since the schedule was resequenced, and minimized the number of violations or exceedence of the radiological work permits due to increased safety performance. DOE-RL stated that there has been extensive

federal oversight of the work, and general support services contractor (GSSC) support has been added to supplement the RL work in the area of radiological protection. DOE-RL added that the former radiological contamination manager was brought back, and a former staff member was brought back to assist with the nondestructive assay (NDA) oversight of the program.

DOE-RL reported that the target milestone M-083-24-T01 for the surveillance and maintenance (S&M) plan is on track to be completed before the June 30, 2016 date.

Accomplishments 1st Quarter 2016 – DOE-RL pointed to the color photos on page 3 of today's handout, and noted that everything on the wall that is shown in the 242-Z tank room photo has been removed and all of the tanks have been isolated. After the room recovery is completed and size-reduction of the two filters in the Remote Mechanical C (RMC) line has been completed, the next step will be to go back into the RMA line. DOE-RL stated that the documented safety analysis (DSA) Rev. 13 has been approved, which will allow visual inspection of the tanks in the Americium Recovery Facility. DOE-RL stated that if the visual inspection shows there are no heels in the tanks, and following receipt of the NDA results, the tanks will be taken out whole instead of doing in-situ size reduction. DOE-RL noted that removing the tanks whole will be safer for the workers and will also save on schedule.

DOE-RL noted that the ventilation duct, the E4 exhaust system that came off the actual gloveboxes, has been paused in order to focus more on the other higher hazard work. DOE-RL stated that the PRF canyon floor has been grouted with nine inches of grout, which reduces worker dose by a factor of five or more.

Project Baseline Performance – DOE-RL reported that the contract-to-date project performance is behind schedule and slightly over budget. DOE-RL stated that the fiscal year-to-date project performance shows a schedule variance, a slippage, and being under budget due to the safety issues, the safety stand down in December along with the holiday period. DOE-RL noted that it is believed that with the revised schedule, there are sufficient funds to get to slab-on-grade. EPA asked if a new schedule was available. DOE-RL responded that the contractor was given two months to get the resequencing of the schedule and the logic aligned, and the contractor is six weeks into that effort. DOE-RL indicated that once upper management and DOE-Headquarters are briefed, information on the schedule could be shared with EPA and Ecology. Ecology asked if a schedule would be provided by the third week of April 2016 during the PFP project managers meeting. DOE-RL responded that a schedule would be provided.

Issues/Challenges – Regulatory - DOE-RL stated that it has been working with

Ecology to develop the new sampling and analysis plan (SAP) for the slab removal, and progress is being made with that effort. DOE-RL noted that the PFP complex surveillance and maintenance (S&M) plan will be turned over to the next DOE-RL group for the items that are not part of the current work scope, and the efforts are progressing towards slab-on-grade.

EPA reminded DOE-RL that the national contingency plan (NCP) requires EPA to sign off on that as well.

DOE-RL reported that since they had a revision in the PFP air dispersion model they are no longer doing a second shift or an actual demolition. DOE-RL noted that it changes the amount of material that may be available for dispersion and reduces the dose potential. DOE-RL stated that the goal is to provide the air dispersion model revision to the regulators for review by the end of March 2016. DOE-RL noted that the Defense Nuclear Facilities Safety Board (DNFSB) and DOE-Headquarters are also interested in reviewing the air dispersion model revision.

Issues/Challenges - Non-Regulatory – DOE-RL noted that the safety performance issues were briefly discussed, and provided a recap for the first quarter of FY 2016. There were several skin contaminations and a release of the vortex coolers that contaminated offsite areas. There were also a number of issues within the plant, which are being corrected as well as corrective actions left to be done.

DOE-RL reported that the validated J Pan waste sample results are expected to be received from Pacific Northwest National Laboratory (PNNL) by March 28, 2016. Once the information has been validated by the contractor CHPRC, the goal is to share the results with the regulators by mid-April 2016.

Planned Activities through June 2016 – DOE-RL noted that the PRF canyon floor grouting has been completed, and the canyon walls and floor characterization is in progress. DOE-RL stated that work in the Americium Recovery Facility (242-Z) has been paused until the high mass glovebox work is completed. DOE-RL indicated that the revised schedule currently shows that work will start on the Americium Recovery Facility by the end of March 2016, with everything ready for demolition by the first part of May.

DOE-RL reported that there are 12 gloveboxes left in the 234-5Z Facility (RMA/RMC and backside rooms), and five will be removed during predemolition. The plan is to open up the interior walls to allow the larger gloveboxes to be removed, and at least three of the five are planned to be removed by the end of summer 2016.

DOE-RL noted that work in the 234-5Z duct level has been paused, but it should

be completed by the end of April or early May 2016. DOE-RL stated there is a process vacuum line in 291-Z that is contaminated, and the facility will be able to go crit incredible after the vacuum line has been removed, which means there will be no criticality issues and they will be able to continue with the asbestos abatement..

PFP Timeline and Sequence – DOE-RL noted that the sequence of activities for demolition work has not changed.

100-K Sludge Treatment Project, Soil Remediation, D4 and ISS - M-016 and M-093 TPA Milestones

Accomplishments – 1st Quarter 2016:

Sludge Treatment Project – DOE-RL reported that construction at the K West basin annex was essentially completed during the first quarter FY 2016, and the basin was declared complete in January 2016 after punch list items from earlier acceptance testing were done. DOE-RL stated that preparations for the relidding work in the K West basin were completed. There are six engineered containers that hold the sludge, and the relidding work involves removing the lids that are currently on the containers and replacing them with lids that will make it easier to install and operate the sludge removal equipment. DOE-RL noted that in February 2016 they had completed the relidding work in the basin. DOE-RL noted that fabrication and receipt of sludge removal processing equipment continues, and the equipment is being staged in the Maintenance and Storage Facility (MASF).

DOE-RL reported that the contract was awarded for some work at T Plant in preparation for sludge storage. The old north loadout pit (NLOP) treatment equipment will be removed from T Plant, and then some of the equipment will be installed in the T Plant cells to support storage of the sludge transport and storage containers (STSCs).

DOE-RL stated that preparations continue for the MASF preoperational acceptance testing (MPAT), which is essentially a cold commissioning testing. DOE-RL noted that sand filter demonstration work has been done to prepare for removing the filter media when the sludge removal is completed.

DOE-RL reported that the field work was completed for the two 100K characterization wells that are located underneath the footprint of the old fuel storage basin and in an area just north of the fuel storage basin where an old reverse well was located. DOE-RL stated that a presentation was given on the preliminary results of the laboratory analysis data during the unit managers meeting for the 100 and 300 Areas last week. DOE-RL noted that data is still

needed that is related to the leach testing. DOE-RL stated that contamination was found in the subsurface soil and groundwater in both boring locations, mainly cesium 137 and strontium-90, and there may have been some transuranic (TRU) contamination underneath the fuel storage basin. DOE-RL stated that all of the results will be compiled into a report that will be transmitted to the regulators.

DOE-RL stated that work continued at the AB waste site remediation area on about nine or ten waste sites. EPA noted that remediation was completed to ten feet, and asked if it was because there was no more contamination. DOE-RL responded that in some areas contamination was found down to ten feet, and contamination was expected beyond that. EPA asked why the remediation didn't go to the record of decision (ROD) specified 15 feet. DOE-RL responded that the intent is not to stop at ten feet, but it didn't have the details on that portion of the work. EPA requested follow up on its inquiry.

EPA Request 1: DOE-RL to follow up with EPA regarding remediation to ten feet on ten waste sites in the AB remediation area.

Milestone Summary – DOE-RL stated that all of the milestones are on schedule.

Project Baseline Performance – DOE-RL stated that there were no cost or schedule variances of note to report.

Planned Activities January – June 2016:

Sludge Treatment Project - DOE-RL noted that the construction acceptance testing at the annex and construction work for relidding of the engineered containers were completed, and the contract was awarded for removal of the old NLOP equipment at T Plant.

DOE-RL stated that all of the sludge removal processing equipment necessary to conduct the cold commissioning testing has been received, and receipt of other equipment will continue. The workers are in the process of assembling the equipment and a final system walk-down will be conducted in April 2016, followed by the cold commissioning testing that will take about three to four months.

DOE-RL reported that transfer of the segregated settler material into container 220 was completed as part of the relidding work, and the preliminary documented safety analysis (PDSA) Rev. 2 was approved in early March 2016. DOE-RL

stated for the 100K maintenance and surveillances will continue. For the AB waste site remediation, begin remediation on 13 additional waste sites and conduct some in-process sampling.

River Corridor Closure Project - Milestones M-16/M-89//M-94

Quarterly Summary (October – December 2015) – DOE-RL noted that there are a total of 57 milestones, and eight of them remain.

Milestone Status:

M-16-149 – DOE-RL reported that one of the 36 waste sites under this milestone, which is located at Gable Mountain, is still not complete. Actions were taken to remove unexploded ordnance, and there is some follow-up sampling needed to determine whether or not any further action is required. DOE-RL noted that the sampling has not been done yet due to the process of getting the cultural review completed. DOE-RL stated that a message was received yesterday from the Yakama Nation stating that the cultural review is approved and that DOE-RL could move forward. DOE-RL stated it will notify the State Historic Preservation Office (SHPO) that the memorandum of agreement (MOA) can be approved, and the SHPO approval is expected today or tomorrow. DOE-RL stated that the excavation permit has been completed, and it will take about a week to do the sampling. EPA asked how long it will take to get back the sampling results. DOE-RL responded that a seven-day turnaround has been requested. DOE-RL noted that the Gable Mountain waste site is in a dispute resolution situation. EPA suggested extending the dispute for two months. It was noted that the dispute is a topic for the Inter-Agency Management Integration Team (IAMIT) meeting immediately following this meeting, and a dispute extension has been prepared for signature.

M-16-161 – DOE-RL reported that this milestone is due March 31, 2016, and the interim response actions in the 100-D and 100-H Areas to revegetate the two waste sites have been completed.

M-89-06 – DOE-RL stated that the submittal associated with this milestone, which is due at the end of June 2016, is on schedule.

Significant Accomplishments - For Last 3 Months:

M-16 - Remedial Action/Risk Assessment – DOE-RL reported that the revegetation campaign in the 100-D/H Areas has been completed. DOE-RL stated that removal of some contaminated soils was done in a couple areas of the 100-N-83 waste site, and surveys are being conducted to confirm the areas are

clean. DOE-RL noted that a site walk-down was done with Ecology on March 10, 2016, to establish whether or not backfill was required, and the decision was that no backfill was required. The next step will be the contouring and revegetation, which will be done during the next season for revegetation in January 2017. DOE-RL stated that the field work for the 600-385 waste site was started on March 16, 2016.

DOE-RL reported that 34 vertical pipe units (VPUs) in 618-10 have been augered, which has already exceeded what was planned for FY16. DOE-RL added that another key activity is preparations for retrieval of the VPUs in the 94 VPU field in 618-10. DOE-RL stated that one more mockup of the VPU retrieval is being done today, and if that is successful, the project startup review will get under way next week. DOE-RL reported on the issue with the continuing discovery of drums up towards the toe of the VPU rows. The crew augered those VPUs so they could be retrieved and then be able to access the last of the drums. DOE-RL noted that in the process of augering those VPUs, it was getting to the highest potential transuranic (TRU) VPUs, based on the cone penetrometer work that was done under American Recovery and Reinvestment Act (ARRA) funding. The second, third and fourth highest potential VPUs were all well below TRU levels, so the decision was made to auger the highest potential VPU, which appeared to be well below TRU levels as well. DOE-RL stated that the results have allowed accelerating use of the clam shell, since the nuclear safety startup processes are not required if the results are below TRU levels.

M-89 – DOE-RL stated they continue with surveillance and maintenance of the 324 Building and there is an action ongoing to complete the repair of one of the exhaust fans. Ecology inquired about the transition of the 324 Building from WCH to CHPRC. DOE-RL responded that it is on target to transition 324 by the end of April 2016.

Environmental Restoration and Disposal Facility (ERDF) - DOE-RL noted that EPA approved the ERDF vertical expansion, and the expansion is under way. DOE-RL added that the in-cell macroencapsulation is also under way after approval of the ROD amendment was received.

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action/Risk Assessment – DOE-RL noted that excavation of the 100-N-83 waste site has been done, and the contouring and revegetation will be done next January. DOE-RL stated that the remediation of the 600-385 waste site has started and the FY16 revegetation campaign has been completed. DOE-RL noted that during the cone penetrometer work that was done in 618-10 for the VPU retrieval process, there was one deeper row of drums identified. The crew

is working on pulling the drums out, which contain miscellaneous debris. Oregon Department of Energy (ODOE) asked how deep the workers are now in the trenches. DOE-RL responded that there appeared to be one more row buried deeper than where the crew currently is working.

Performance Summary – DOE-RL noted that the project performance summary reflects contract to date, and the project is slightly behind schedule. The project cost variance is \$314 million, and the significant underruns are listed in today's handout. DOE-RL stated that the schedule performance index is 0.97, and the cost performance index is 1.13.

River Corridor Closure Issues:

600-349 Waste Site Cultural Resource Review - DOE-RL noted that this issue was already discussed under milestone M-16-149.

Biennial Assessments of Information and Data Access Needs – M-035-09

DOE-RL stated that the basis of this milestone is to ensure that all parties have access to the information they need on the Hanford Local Area Network (HLAN). DOE-RL stated that a project was kicked off to automate the process for getting access via the Visitor Hanford Computer Access Request (VHCAR). The VHCAR is an automated process for a visitor to fill out a form, which is then placed into a work flow system that is tracked and managed throughout the life cycle until the visitor is contacted and informed that their account is activated. DOE-RL noted that it was a challenge to work through the VHCAR process since every step was done manually. DOE-RL added that with the automated process now in place, if there are issues, they can be identified and quickly resolved.

Hanford Lifecycle Scope, Schedule, Cost Report - TPA Milestone M-036-01

DOE-RL reported that the 2016 Lifecycle Report was just released, and it is on the website for the public comment period. DOE-RL noted that as of this morning, no comments have been received. DOE-RL stated that the Hanford Advisory Board (HAB) indicated via conference call last month that it will not be making any comments in the HAB's budget committee report. DOE-RL stated that a TPA change notice has been drafted and submitted for review, and EPA requested that the change notice go through public notification. DOE-RL noted that Ecology is reviewing the change notice with its legal counsel. EPA stated that it has comments from legal counsel, and requested notification from Ecology when it is ready to move forward.

Ecology responded that it is not ready to move forward. Ecology added that the next three years of the Lifecycle Report were discussed during the project

managers meeting (PMM), and it was noted during the PMM that there may not be any substantial changes next year, and that Ecology was willing to forego the 2017 Lifecycle Report. Ecology stated that the Central Plateau milestone changes and Bechtel National Inc. baseline change proposal could be incorporated into the 2018 Lifecycle Report, and there will be new contractors with new baselines when the 2019 Lifecycle Report is issued. DOE-RL noted that it will take some time to implement the new Consent Decree. Ecology summarized that the path it visualizes is to skip next year's 2017 Lifecycle Report, then issue a couple reports, and then discuss the path forward. Ecology suggested drafting a change request that documents the agreement to cancel next year's Lifecycle Report. DOE-RL agreed with Ecology's suggestion and will follow up with drafting a change request.

Ecology Request 1: DOE-RL to draft a change request documenting the agreement to cancel the 2017 Lifecycle Report.

Hanford Land Disposal Restrictions Summary Report – M-026 and Land Disposal Restriction Treatment – M-091

M-026 - DOE-RL reported that a draft Land Disposal Restrictions (LDR) summary report for calendar year 2015 was sent to Ecology within the past week, and Ecology has provided some comments. DOE-RL stated that it is on schedule to submit the calendar year 2015 LDR report by April 30, 2016. DOE-RL and Ecology are working through comments associated with the calendar year 2014 LDR report, which is the full report. DOE-RL noted that it will be preparing the schedule that Ecology requested. Ecology stated that it is waiting on feedback from legal counsel regarding the proposed approach for revising the calendar year 2014 LDR report.

M-091 – DOE-RL reported that the M-091-47B milestone was met to treat and certify 280 cubic meters of transuranic (TRU) waste, which was reported during the February PMM. A formal notification letter will be sent to Ecology that the milestone has been met. DOE-RL noted that the other part to milestone M-091-47B is to submit a change package to Ecology for the 2017 and 2018 milestones, which has been discussed with Ecology. DOE-RL noted that it is working with CHPRC to identify a million dollars so that more waste could be sent to Permafix Northwest (PFNW), since PFWN is running out of work. DOE-RL stated that sending the extra waste will also allow it to start working on meeting the next milestone. Ecology added that it had documented in writing that it is willing to count the extra waste sent this year towards next year's milestone.

DOE-RL reported that efforts are under way associated with M-091-51 to submit the engineering alternatives study for acquisition of capabilities and/or acquisition of new facilities, modification of existing facilities, and/or modification of

planned facilities. DOE-RL noted that the study will go beyond M-091 waste and will include all problematic waste, including CERCLA waste, post 2009. DOE-RL estimated that a draft of the study will be ready to share with Ecology around July 2016. Ecology suggested that DOE-RL share the study with EPA if the 200-PW-1/3/6 waste is included in the study. DOE-RL responded that the assumption is that the majority of the waste will be packaged compliantly, and the capability will not be needed. DOE-RL pointed out that the study associated with M-091-51 will not be an all-encompassing solution, but it will be an analysis of capabilities, and further studies will have to be done, especially for the problematic waste streams.

Central Plateau Remediation Project - M-016-00, M-037, M-085-00

Accomplishments 1st Quarter 2016 – Minimum Safe/Maintenance Activities

DOE-RL noted that the task for RL-40 is primarily surveillance and maintenance activities.

Accomplishments 1st Quarter 2016 – Nuclear Safety – DOE-RL stated that there are a number of nuclear safety documents that need to be updated on a yearly basis. DOE-RL pointed out that today's handout lists documented safety analysis (DSA) updates, and several of them are related to the canyon initiative project to reduce risk in the canyon (see canyon stabilization documents). DOE-RL noted that facility DSAs are also being updated. DOE-RL added that many of the nuclear safety documents only allow for surveillance, and if there is work to do in the canyons, an analysis has to be done and the DSA has to be updated.

207A South Retention Basin Closure – DOE-RL reported that the Independent Qualified Registered Professional Engineer (IQRPE) report for 207A was sent to Ecology, and the next step is to issue the public comment period. Ecology indicated that it had not seen the IQRPE report. DOE-RL responded that it would follow up to ensure the report had been sent to Ecology.

Ecology Request 2: DOE-RL will follow up to ensure the 207A IQRPE report has been sent to Ecology.

Canyon Stabilization Documents – DOE-RL stated that there is a canyon initiative project under way to look at the risk in the canyons, prioritize the risk, and then determine what work could be initiated. DOE-RL noted that part of the initiative is to provide future work for the PFP work force. Ecology inquired about the status of the REDOX (Reduction-Oxidation, S-Plant), Plutonium Uranium Extraction (PUREX plant) and B Plant engineering evaluation cost analysis (EE/CA). DOE-RL responded that an initial draft on the REDOX EE/CA was submitted by the contractor, and DOE-RL has provided comments. DOE-RL plans to meet with the contractor next week to review the comments.

DOE-RL stated that the REDOX EE/CA is about 80 percent completed, and the PUREX and B Plant EE/CAs are being drafted and are about 50 percent complete. Ecology expressed interest in the proposed alternatives in the EE/CAs, and asked if a meeting could be held to discuss the alternatives. It was noted that EPA should be invited to attend the meeting to discuss the alternatives.

Milestone Summary – DOE-RL noted that the milestones are under the Tentative Agreement with the proposed changes, with the exception of M-085-01, which is on schedule. Ecology initiated a discussion regarding milestone M-037-10 and completing the closure requirements. Ecology stated that viable closure plans have not been submitted. DOE-RL asked if Ecology does not have a viable closure plan for 207A. Ecology responded that the 207A closure plan is basically done, and its concern is directed towards all of the other closure plans. Ecology suggested establishing a schedule for meetings to work on revising the closure plans. DOE-RL agreed with Ecology's suggestion.

Ecology Request 3: DOE-RL to schedule meetings with Ecology to revise the closure plans under M-037-10.

Planned Activities January – June 2016 – Ecology asked when the surveillances for B Plant and PUREX will be conducted. DOE-RL responded that the B Plant surveillance has been completed, and PUREX will be done in the next two months. Ecology expressed an interest in attending the PUREX surveillance, and requested notification when the surveillance is planned. Ecology inquired about a filter change-out in PUREX as part of the annual surveillance. DOE-RL stated that the filter change-out is not planned, and the replacement of filters has been extended due to ALARA (as low as reasonably achievable) concerns and to be more efficient. DOE-RL stated that it will notify Ecology when the next filter change-out is scheduled.

Ecology Request 4: DOE-RL to notify Ecology when the PUREX surveillance will be conducted, and when the next filter change-out is planned.

Soil and Groundwater Remediation Project Milestone Review - M-015-00, M-016-00, M-024-00, M-085-00

Accomplishments – (1st Quarter 2016) River Corridor - DOE-RL reported that 1,300 chrome samples were collected at 100-BC-5, and they are being analyzed and the data will be incorporated into the RI/FS. DOE-RL noted that there was some elevated chrome that was slightly above the aquatic levels, but below the drinking water standards. DOE-RL stated that the effects of the chrome levels are being reviewed, although it appears that any remedy could dissipate before anything could be put in place. DOE-RL noted that any decision will be

determined by the ROD. DOE-RL stated that it is working on the RI/FS with Ecology for 100-NR-2. DOE-RL noted that tribal approval was received to drill the six wells by the revegetated reactor area at 100-N, and the data will be factored into the decision for the RI/FS.

DOE-RL reported that a Memorandum of Agreement (MOA) was recently received for demolition of the old 100-NR-2 pump and treat building. DOE-RL stated that the pump and treat system was used to extract strontium, and it has not been used for years.

DOE-RL stated that the Stage A uranium sequestration was completed in November at 300-FF-5, and core samples were pulled to compare the leach studies done at the baseline to leach studies done after the injection. The results are expected in April 2016, and the effectiveness of how well it is binding up the uranium will be examined. DOE-RL will proceed with Stage B at a later date. (At this time a video of the uranium sequestration system was shown). DOE-RL stated that the information from Stage A will inform what the spacing should be for Stage B. DOE-RL noted that there were nine wells that were spaced fairly compactly, and it is believed the wells can be spread out for Stage B. Ecology suggested a tour in the 200 Area, including 200-BP-1, around the May time frame.

Accomplishments (1st Quarter 2016) Central Plateau – DOE-RL reported that the 200-BP-5 treatability test was completed in November 2015, and pumping under the treatability test continues while the EE/CA is being prepared. DOE-RL stated that the one well is pumping about 80 gallons per minute, and after piping is extended to the second well across the street, the two wells should be pumping about 150 gallons per minute. At that point the perched water in that location will be piped in and it will no longer be trucked to 200 West.

DOE-RL reported that milestone M-016-191 was completed, and extraction from two wells is being done by U Plant, and three wells are being injected for iodine containment.

DOE-RL stated EPA approved the shutdown of PW-1 and are working on the final report to send to EPA for final approval before it is demolished.

DOE-RL stated that the modification of the perched water system was completed at 200-DV-1, and two more wells were added for a total of three wells. Draw-down tests are being done to observe the effects of running three wells, which will occur over the next few months. Following the draw-down tests, the intent is to get all three of the wells running. DOE-RL stated that the perched water will be trucked to 200 West until the piping is in place, and the goal is to keep everything

at 200 West and not send anything to Effluent Treatment Facility (ETF) anymore. DOE-RL noted that there is an EE/CA action memorandum in place to allow that to happen.

Ecology stated that there were indications that the Central Plateau principles were holding up finalizing the 200-DV-1 RI/FS work plan, and the principles had been extended twice and may not be done by the latest extended time frame of April 2016. EPA stated that it considered the principles to be done, and they should be incorporated into the work plan. DOE-RL stated that the principles are being incorporated into the work plan, and it is no longer pursuing separate documentation. DOE-RL added that the extensions Ecology was referring to were regarding final resolution and incorporation of comments. DOE-RL noted that if there is still disagreement after submittal, it may need to be elevated, but the principles have been discussed long enough and the parties need to move on.

DOE-RL noted that 200-WA-1 will be lagging slightly because in addition to the principles, 200-WA-1 is lagging because of evaluation to move U Canyon and PFP waste sites to 200-WA-1. DOE-RL stated that 200-DV-1 and 200-SW-2 should be coming over to Ecology, followed by 200-IS-1.

DOE-RL stated that Ecology is restarting its review on the 200-BP-5 RI and the 200-PO-1 RI report addendum. DOE-RL noted that workshops are being conducted on modeling in an effort to resolve the issues on the differences in the model. DOE-RL stated that it is integrating with DOE Office of River Protection (ORP) to get the Waste Management Area C (WMA-C) interfaces with 200-BP-5 identified and clearly laid out. Ecology stated that it is resurrecting its comments for review, but are waiting for the modeling workshops to be done. Ecology stated that it is in the process of contracting with Tetra Tech to review the modeling, which may take longer than DOE-RL is anticipating. DOE-RL stated that it is willing to work with Tetra Tech and to provide whatever Ecology needs to complete the RIs.

Milestone Summary:

DOE-RL stated that most of the milestones are under the tentative agreement, and that both dates were listed in today's handout. DOE-RL noted that once the milestones under the tentative agreement are agreed to, many of the milestones will drop off the table since they will be out three to five years. DOE-RL stated that the preference is to keep the milestone table to 12 to 18 months ahead.

DOE-RL initiated a discussion regarding the apatite barrier at 100-NR-2 under M-16-110-T03. DOE-RL stated that its understanding of the proposed plan and the RI/FS is that a different length or distance for the apatite barrier may be recommended. DOE-RL indicated that a decision on the apatite barrier needs to

be finalized before going through the cultural review and negotiating an MOA with the tribes. DOE-RL noted that the MOA will be a lengthy process, and the intent is to avoid going through the process twice. Ecology asked if DOE-RL will be expanding the apatite barrier. DOE-RL responded that it depends on the ROD, and the barrier will be expanded if the ROD calls for it. DOE-RL added that there are indications that the ROD may call out some sections that don't need the barrier, and that it is waiting for a more definitive answer before going through the cultural review and MOA process.

Ecology noted that a few years ago, the plan was to add additional apatite to the wells that were already in existence, and the plan was sidelined by the cultural reviews and then budget issues. Ecology asked if DOE-RL was planning to resurrect that plan. DOE-RL acknowledged that at one point there was funding for the plan to expand and reinject the wells, and the cultural reviews halted the plan. DOE-RL stated that the funding was lost because the year ended, and the money went to other projects since the work couldn't be completed at that time. DOE-RL stated that at this point, it will do whatever the ROD calls for, and the anticipation is that the ROD will require some form of expansion and reinjection. Ecology asked if DOE-RL was going to wait for the ROD before doing the expansion and reinjection, and pointed out that there is information in the interim ROD to do the work. DOE-RL responded that the expectation is that the final ROD will change what the interim ROD states.

Ecology stated that the ROD that's in place is a legal requirement, and DOE-RL is avoiding a legal requirement in anticipation of something that has not been agreed to by the Tri-Parties. Ecology added that DOE-RL would be at risk for an enforcement action. DOE-RL responded that there is also the funding issue. Ecology stated that DOE-RL can notify the regulators about a funding issue, but there is an issue if DOE-RL puts off a legal requirement without Tri-Party agreement. DOE-RL indicated its understanding is the ROD is close to being finalized. Ecology responded that it did not have the same understanding, and that comment resolution on the FS portion is still being negotiated, which will be followed by the ROD proposed plan and then going through the Remedy Review Board. EPA noted that the Yakama Nation expressed very clearly during the HAB meeting that it does not agree with the remedy. DOE-RL asked if that meant that the Yakama Nation is opposed to injecting the apatite barrier. EPA responded that that was correct, and that poses a problem, given how DOE-RL operates its Section 106 process and allows the tribes to stop legally required work.

Ecology stated if DOE-RL wanted to amend the ROD that DOE-RL can try but DOE-RL has to do a proposed plan to do that effort. Ecology stated they did not know if it could be an explanation of significant difference (ESD), but DOE-RL would have to go through that process.

DOE-RL and Ecology agreed that further discussion on this topic should be deferred to another forum.

DOE-RL stated that all of the remedies have been implemented associated with M-016-110-T04 under the RODs, and a white paper is being developed that will identify the remedial actions that have been completed. The white paper will identify where the target milestone has been met, with the exception of 100-N, which is a separate milestone. DOE-RL stated once the white paper is complete they will provide a copy to Ecology.

DOE-RL reported that milestone M-016-193, investigate chrome plume is on schedule and new wells are being installed.

DOE-RL reported that internal meetings have been held regarding the M-024 milestones, and discussions will be initiated with EPA and Ecology. Milestone M-024-67 which is construction of all wells for calendar year 2016 is complete and letters have been transmitted.

Project Baseline Performance – DOE-RL stated that the project is slightly behind schedule and slightly under budget.

Planned Activities – January - June 2016:

DOE-RL intends to implement the RCRA monitoring plans and resolve those comments and design and begin implementation of the pump and treat optimization plan, which is an annual document.

DOE-RL stated that the membrane bioreactor cassette installation will start when the weather warms up, since they are temperature sensitive. DOE-RL noted that it will increase the flow through the membrane bioreactors, although the pump rates for this fiscal year will be reduced since the system will have to be shut down for installation. DOE-RL added that the plan is to meet last year's goal for pump rates of 2.1 billion gallons.

Ecology inquired about DOE-RL's request for an extension on the 200-WA-1 work plan. DOE-RL responded that the extension was requested to incorporate the changes due to the U Canyon and PFP concept. Ecology asked if the 200-WA-1 work plan will be issued by June 2016. DOE-RL responded that the goal is to continue with efforts on the work plan, and it will be dependent on discussions with EPA on whether it will be issued by June 2016.

TPA Decision Documents List

DOE-RL stated that the decision documents list was streamlined, and that some items were removed that are several years out. DOE-RL noted that the intent of the documents list is to provide notification of documents that will be sent to the regulators for review, and the list will be pared down to documents coming over in the next 12 months. DOE-RL added that there will be some documents on the list that are beyond 12 months. Ecology requested that DOE-RL add a note under the title of the documents list to indicate that it covers the next 12 months or specific dates. DOE-RL agreed to follow up with Ecology's suggestion. DOE-RL noted that the list from last quarter contained documents that are five or six years out, and it made sense to remove those documents.

Ecology Request 5: DOE-RL to specify the time frame for the documents on the TPA decision documents list.

DOE-RL noted that the updates are highlighted in blue under the comments/issues column of the list. The decision document updates were discussed as follows:

No. 1 – DOE-RL stated that the dispute for the 200-IS-1 work plan has been extended to March 31, 2016, and it may be extended further. Ecology stated that it would depend on the outcome of the meeting scheduled later today about whether the dispute would be extended.

No. 2 – DOE-RL and Ecology continue to work through the 200-EA-1 work plan.

No. 3 – The public review for the 207A closure plans is planned for the April 2016 time frame.

No. 4 – DOE-RL stated that the closure plans for hexone storage are scheduled to start in 2017. Ecology agreed that the closure plan work is scheduled to start in 2017. Ecology added that discussions are needed to resurrect the closure plan and start the process to get it permitted because at this time it is not in 8C. Ecology indicated that the closure plan was a fairly good plan, and the main issue was with regard to the contingencies associated with digging up the tanks that had been buried for 40 years. Ecology stated their concern with that closure plan is if the tank doesn't have integrity, DOE-RL will look at it then and that was not an acceptable path forward.

No. 6 – DOE-RL stated that the parameters are being incorporated into Rev. 0 of the 200-SW-2 work plan, and an extension will be requested for the submittal. DOE-RL noted that there is a path forward, and the parameters will be incorporated based on past discussions.

No. 7 – DOE-RL noted that an extension was requested for comment resolution to June 1, 2016, and asked EPA about the status. EPA acknowledged the extension request, and stated that the 200-PW-1/3/6 documents should be finalized this month. Ecology stated that it had a meeting with the Yakama Nation (YN) representatives, and all of YN's comments regarding the 200-SW-2 work plan were discussed. Ecology is now in the process of finalizing the work plan.

No. 8 – DOE-RL stated that the status of the 200-DV-1 work plan is similar to 200-SW-2, and the principles are being incorporated into Rev. 0. DOE-RL indicated that an extension will probably be requested for submittal.

No. 10 – DOE-RL noted that 200-BP-5/200-PO-1 were discussed earlier during today's meeting. Ecology is reviewing the BP-5 RI report, and workshops are being held to discuss the modeling.

No. 11 – DOE-RL noted that the 200-PO-1 RI report is tied to No. 10.

No. 12 – DOE-RL stated that Ecology responded to the draft 200-BP-5 EE/CA in December 2015, and DOE-RL is working through the comments. Ecology stated that a meeting was held yesterday with DOE-RL, and Ecology indicated that the EE/CA was satisfactory. DOE-RL will be sending the EE/CA to EPA for review, and then prepare to send the EE/CA out for public review, along with the action memorandum. DOE-RL stated that it will continue to pump under the treatability test, and the only change will be receipt of the authorization document. Ecology concurred with DOE-RL's statement.

No. 15 – DOE-RL noted that the ROD is scheduled to be issued September 30, 2016, and the understanding is that a post-ROD site evaluation will be done for the sites that were removed, treated, disposed (RTD'd) since the cutoff date.

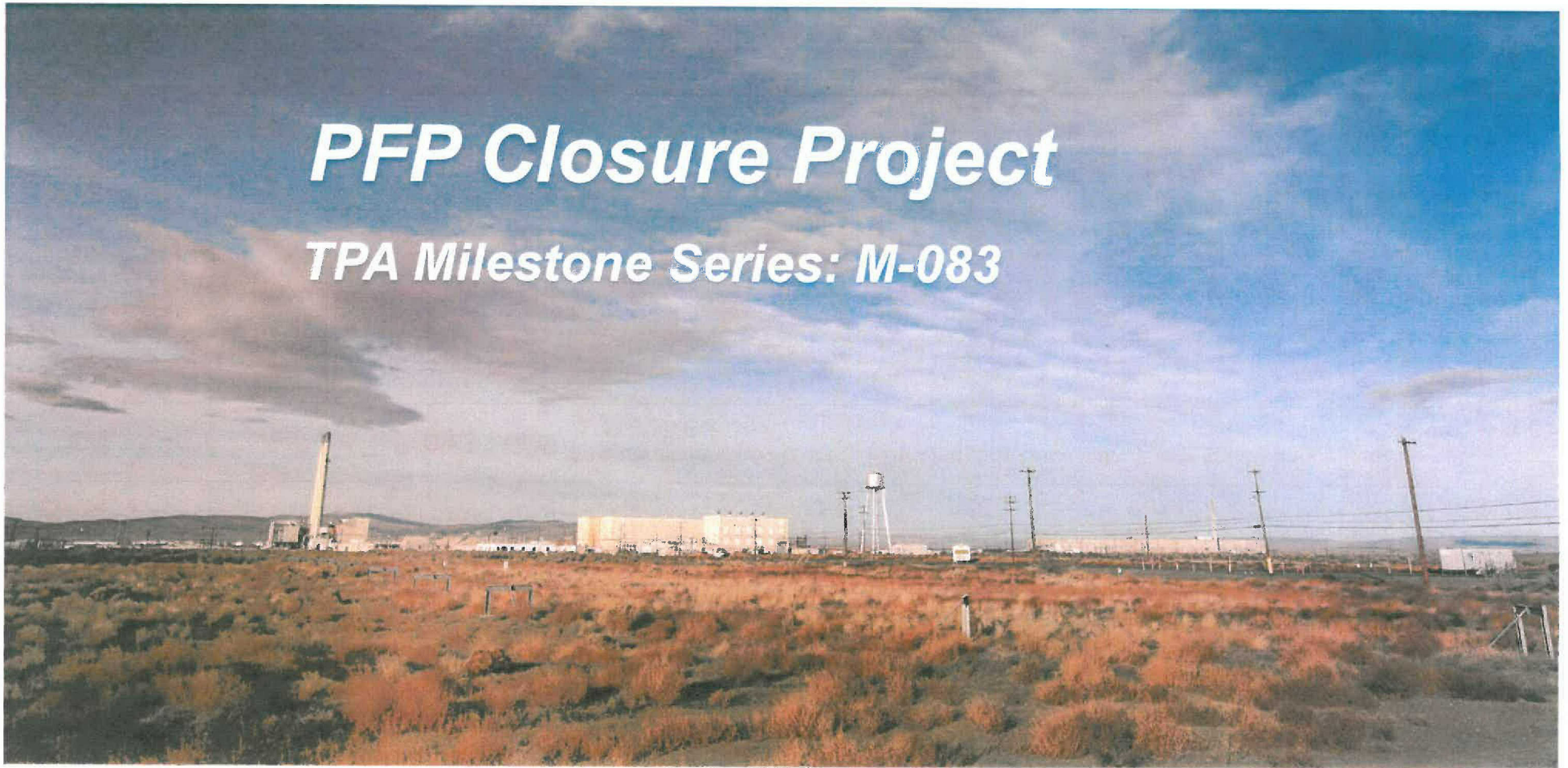
No. 17 – Ecology confirmed that it is preparing an extension for DOE-RL's submittal of the draft Rev. 0 remedial investigation.

No. 19 – Ecology stated that it is currently resurrecting its comments on the 200-BP-5 SAP, and they should be transmitted to DOE-RL within two weeks. Ecology indicated that the comments won't change very much, and the SAP was being held up for the most part based on the RI. Ecology stated that the main issue is that DOE-RL has eliminated many of the chemical of potential concerns (COPCs) based on the RI. Ecology noted that it is in agreement with a reduced frequency of sampling in the SAP, but discussions are needed regarding the RI.

No. 20 – DOE-RL noted that the remaining documents on the list include the RCRA SAPs, which are based on a template that was put together for consistency for all of the RCRA SAPs. DOE-RL stated that comments were received from Ecology on the SAPs that were sent over, and discussions will be held during separate meetings.

PFP Closure Project

TPA Milestone Series: M-083



U.S. Department of Energy
U.S. Environmental Protection Agency
State of Washington, Department of Ecology

1st Quarter FY 2016
March 17, 2016

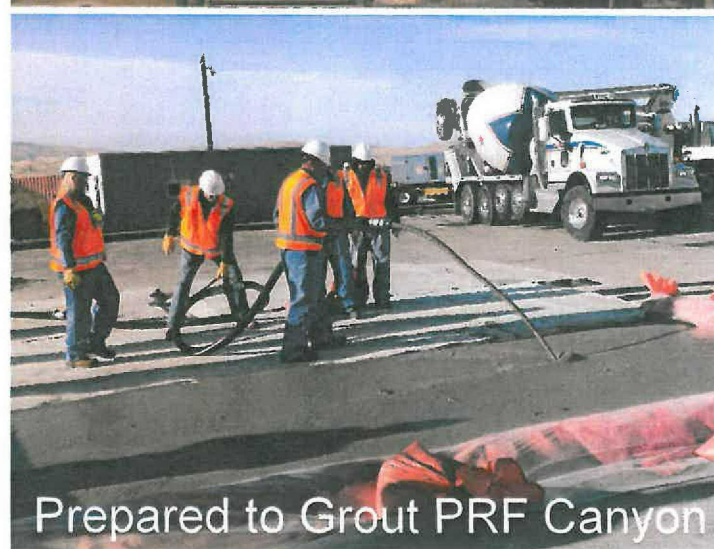
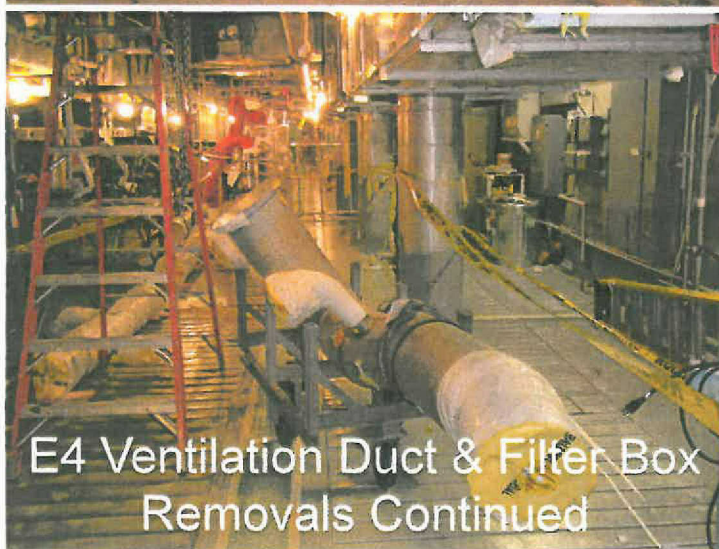
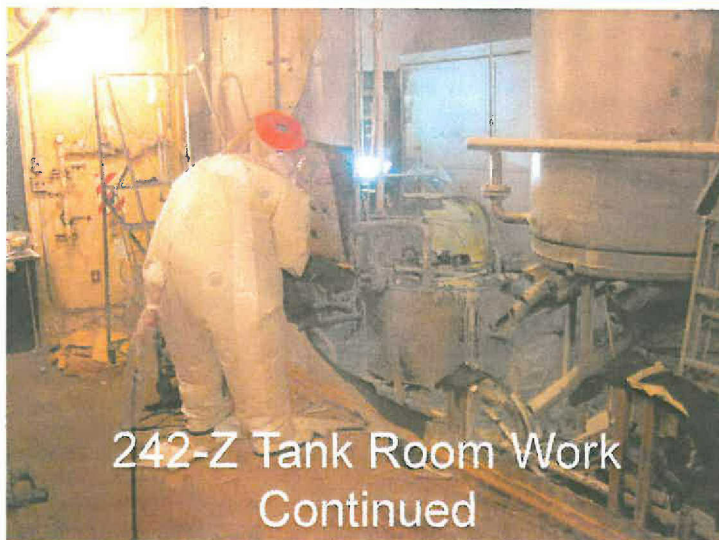


U.S. DEPARTMENT OF
ENERGY

Milestone Summary

Milestone/ Target Date	Due Date	Status	Description
M-083-00A	9/30/2016	At Risk	Complete PFP Facility Transition & Selected Disposition Activities. Completion Of This Major Milestone Includes The Following Key Elements: 1) Completion Of All Activities Necessary To Achieve End Point Criteria Established Through Milestone M-83-20 For Placing The PFP Facility In A Safe And Stable S&M Mode, 2) Completion Of All Activities Described In The Approved M-83 Series Interim Milestones And Target Date; And 3) Completion of The Balance of PFP Selected Disposition Activities Pursuant To The Final Action Memoranda And Work Plans. Note: Also See "Description/Justification" Contained In Change Form M-83-01-03.
M-083-24-T01	6/30/2016	On Schedule	Submit Revision 0 of the PFP Complex Surveillance and Maintenance (S&M) Plan to Ecology.

Accomplishments 1st Quarter 2016



Project Baseline Performance

Contract to Date (Through December 2015)

RL-0011 Nuclear Material Stabilization and Disposal	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	\$891,398	\$858,817	\$864,731	(\$32,580)	-3.7%	(\$5,913)	-0.7%	\$969,778	\$970,631	(\$852)

Fiscal Year to Date (Through December 2015)

RL-0011 Nuclear Material Stabilization and Disposal	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	\$27,927	\$22,566	\$21,935	(\$5,361)	-19.2%	\$632	2.8%

Issues/Challenges

Regulatory (*heads up*)

- *Developing new Sampling and Analysis Plan for slab removal*
- *PFP Complex Surveillance and Maintenance Plan*
- *PFP Air Dispersion Model Revision*

Non-Regulatory

- *Safety performance issues impacting progress*
- *J Pan Waste Sample Results*

Planned Activities Through June 2016

236-Z (PRF)

- Complete canyon floor cleanout
- Complete canyon walls and floor characterization
- Grout canyon floor
- Decontaminate canyon walls if deemed necessary based on characterization results
- Complete draining of chemical lines
- Remove process piping, isolate filter boxes, and remove E4 ducting
- Prepare column and MT glove boxes for extraction during demolition
- Complete facility characterization and complete asbestos removal as needed
- Complete Demolition Readiness Assessment
- Complete cold and dark activities, and make ready for demolition

242-Z (Americium Facility)

- Complete tank room field work, and prepare tanks for extraction during demolition
- Complete characterization field work and prepare reports
- Complete cold and dark activities, and make ready for demolition

Planned Activities Through June 2016

234-5Z (RMA/RMC and Backside Rooms)

- Remove room 166 glove boxes
- Remove ventilation, process piping and ducting from first floor
- Characterize facility and remove asbestos as needed

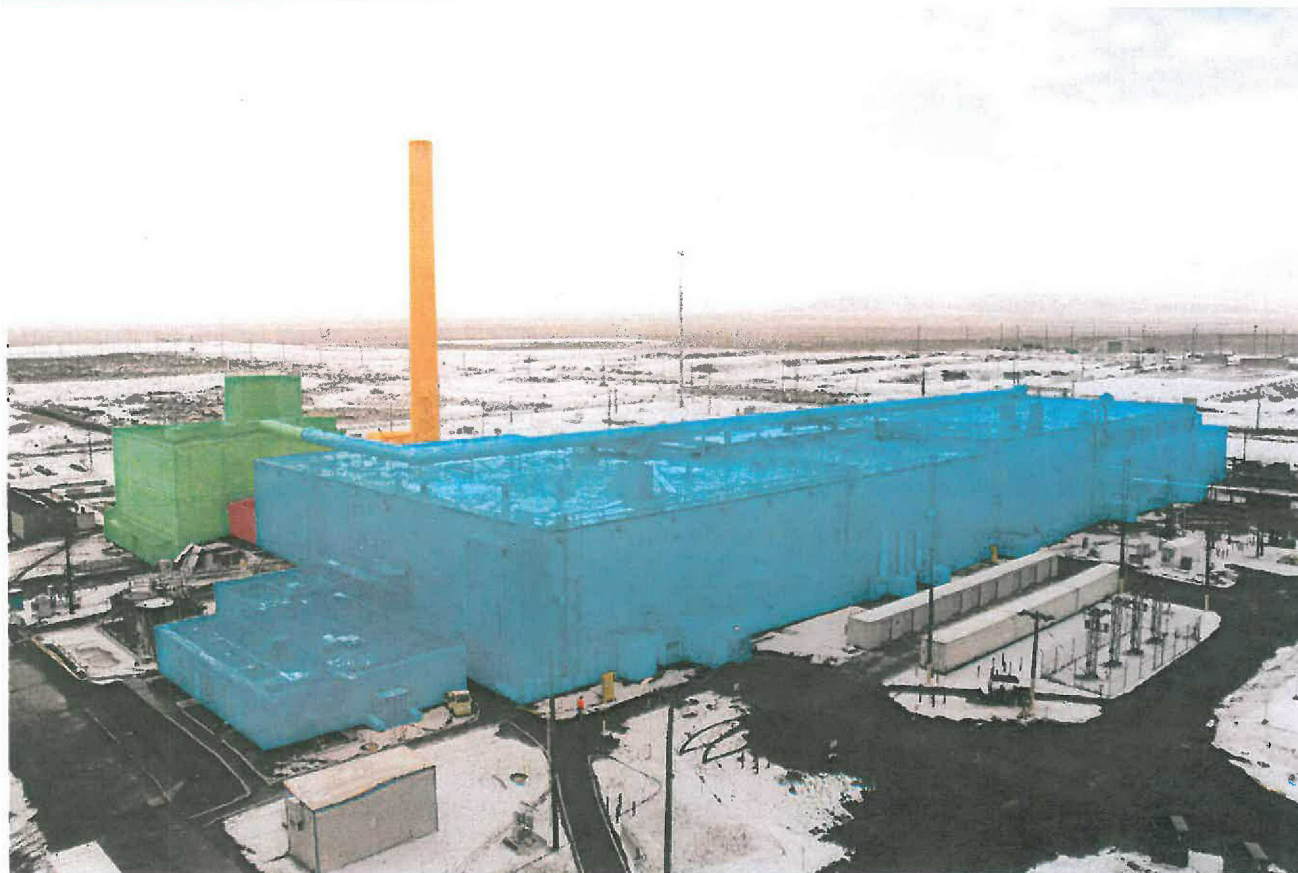
234-5Z (Duct Level)

- Complete large item load out penetrations
- Continue E3/E4 exhaust systems, filters, and filter boxes removal activities
- Remove friable asbestos
- Drain remaining chemical lines

291-Z

- Initiate sump characterization
- Complete 26 inch process vacuum line removal (enable Criticality Incredible)
- Characterize facility and remove asbestos as needed

PFP Timeline and Sequence



Demolition work activities being revised. New dates for major activities (e.g. demolition start/completion) are under review.

Demolition Sequence

1 236-Z Plutonium Reclamation Facility

2 242-Z Americium Recovery Facility

3 234-5Z Plutonium Finishing Plant

4 291-1 Ventilation Stack and Fan House



U.S. Department of Energy
U.S. Environmental Protection Agency
State of Washington, Department of Ecology

First Quarter FY 2016
March 17, 2016

100K Sludge Treatment Project, Soil
Remediation, D4, & ISS
TPA Milestone Series: M-016 and M-093



Accomplishments

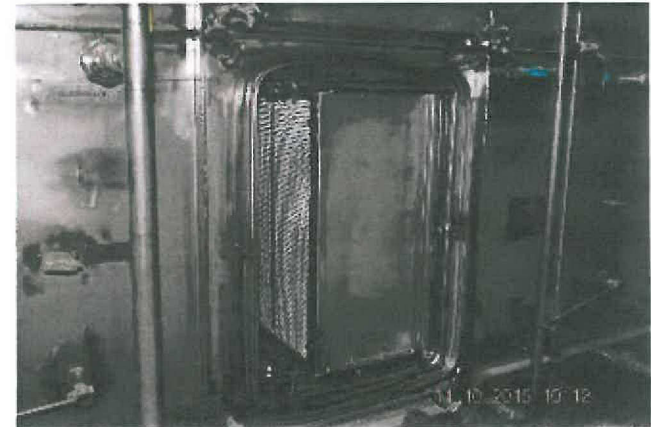
1st Quarter 2016

Sludge Treatment Project

- Complete 105-KW Sludge Transfer Equipment Installation (*M-016-177, due 9/30/2017 On Schedule*)
- Begin Sludge Removal from 105-KW Fuel Storage Basin (*M-016-175, due 9/30/2018 On Schedule*)

Construction

- Annex
 - Continued working remaining punch list items and acceptance testing.
 - Completed contractor performance testing on the fire alarm system: all inputs/outputs and horns/strobes were successfully tested.
- 105 KW Basin Re-Lidding
 - Completed mobilization of crew and tools into the Basin, installation of temporary guardrail system around all six Environmental Containers (EC), determ/isolation of level sensors and cameras, camera removal on three of the six ECs, removed cameras and removed all Installed Equipment Test (IET) collar assemblies.



KW Annex Construction: Installed one set of filters into the HEPA units



105 KW Basin Re-Lidding Construction: Completed MASF mock-up training and EWP

Accomplishments

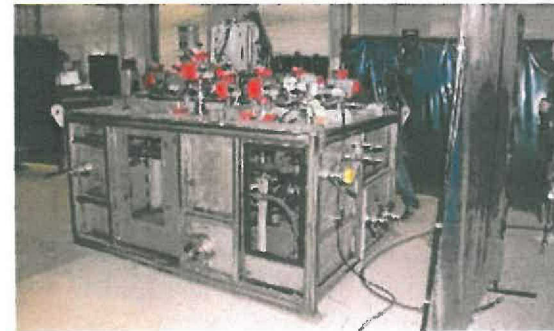
1st Quarter 2016

Sludge Treatment Project (*continued*)

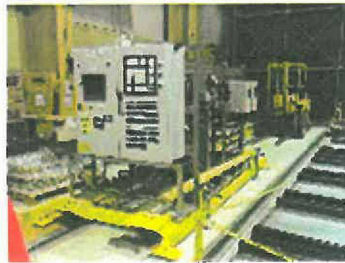
Equipment Procurement/Fabrication

- Safety Significant (SS) Transfer System Components –
 - Completed fabrication of the Transfer Line Service Box (TLSB) and Lift Fixture.
 - Completed Testing of the TLSB.
- General Service XAGO Retrieval Tool – The three XAGO Retrieval Tools were formally accepted through Acquisition Verification Services, delivered to MASF and staged for MASF Preoperational acceptance testing (MPAT).
- GS Retrieval and Transfer System Components – delivery of the In-Basin & Annex Flocculant Skids and the In-Basin Tools were completed.
- SS Retrieval & Transfer System Components – The 3 Booster Pump Skids & 2 Rupture Disk Skids were delivered to MASF and staged for MPAT.

Transfer Line Service Box



XAGO Retrieval Tools



XAGO Pump Skid



Transfer System
Booster pumps

Accomplishments

1st Quarter 2016

Sludge Treatment Project (*continued*)

Equipment Procurement/Fabrication (*continued*)

- SS Sludge Transport and Storage Container (STSC) Instrumentation & Assembly – Sludge Transportation System Cask new handrails were fit tested at MASF on the Sludge Transfer System (STS) Trailer.
- Radiation Monitoring Instrumentation – Completed testing of radiation protection equipment.
- SS Control System Panels – Fabrication and testing activities are complete on PNL-103 Safety Control Panel, JB-109A/B Seismic Switch J-Boxes, and PNL-107 Blending Panel. Seismic testing of PNL-103 and ECRT-JB-109A/109B was successfully completed.
- STSC Contamination Drapes and STS Cask IP-2s - Completed fabrication of three sets of lower cask liners with accessory sleeves and three upper cask covers with 8" diameter Ports. These items were delivered to MASF and were staged for use during MPAT.
- Awarded contract for in-cell storage equipment at T Plant and initiated fabrication.



Panel PNL-103; Safety Control Panel

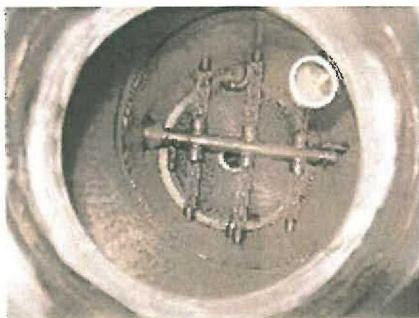
Accomplishments

1st Quarter 2016

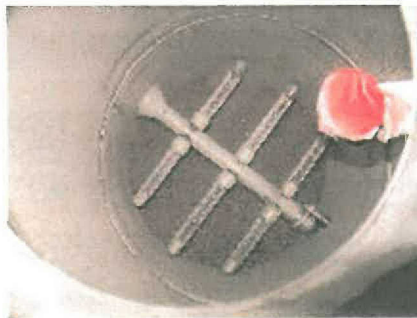
Sludge Treatment Project (*continued*)

MASF Preoperational Acceptance Testing (MPAT)

- Continued testing activities and preparations for cold commissioning, including demonstration of sand filter media removal (see photos below).
- Completed operator system familiarization on the Engineered Container Retrieval and Transfer System full-scale test mockup.
- Completed training of construction personnel to perform re-lidding of Engineered Containers in the KW Basin.
- Continued development of MPAT test specifications.
- Calibrated truck scale for MPAT



Empty Sand Filter



Initial Filter Media Layer



Final Filter Media Loaded

Accomplishments

1st Quarter 2016

100K Characterization Wells (116-KE-3 and UPR-100-K-1)

- Completed all laboratory analysis, fieldwork, site demobilization and waste profile
- Packaged all waste in preparation for January 4, 2016 shipment to ERDF.



UPR-100-K-1 Borehole



116-KE-3 Borehole

Accomplishments

1st Quarter 2016

- 100K AB Waste Site Remediation
 - Initiated waste site excavation activities.
 - Completed remediation to 10' on ten waste sites.
 - Conducted in-process sampling on nine waste sites.
 - Began Verification Sampling Instruction (VSI).
 - Began Remediation (Remaining Site Verification Packages [RSVP]).
- 165-KE Asbestos Abatement
 - Fully qualified Field Work Supervisors
 - Fully trained Insulators
 - Began repairs on the Modec trailer (Asbestos Abatement Trailer)
- 100K Minimum Safe Activities
 - Maintained 100K Area Minimum Safe configuration
 - Performed radiological and waste surveillances.



100K AB Waste Site Sampling



AB Waste Site

Milestone Summary



TPA Number	Due Date	Description	Status
M-016-177	9/30/2017	Complete 105-KW sludge transfer equipment installation	On Schedule
M-016-175	9/30/2018	Begin Sludge Removal from 105-KW Fuel Storage Basin	On Schedule
M-016-176	12/31/2019	Complete sludge removal from 105-KW Fuel Storage Basin	On Schedule
M-016-178	12/31/2019	Initiate Deactivation of 105-KW Fuel Storage Basin	On Schedule
M-093-28	12/31/2019	Submit Change Package for Proposed Interim Milestones for 105-KE/KW Reactor Interim Safe Storage	On Schedule
M-016-173	9/30/2022	Select K Basin Sludge Treat. & Pkging Technology propose new MS's	On Schedule
M-016-181	9/30/2023	Complete Deactivation, Demolition & Removal of 105-KW FSB	On Schedule
M-016-186	12/31/2023	Initiate Soil Remediation Under 105-KW Fuel Storage Basin	On Schedule
M-016-00C	9/30/2024	Complete All Response Actions In The 100K Area	On Schedule
M-016-143	9/30/2024	Complete The Interim Response Actions For The 100K Area Phase 2	On Schedule
M-093-27	9/30/2024	Complete 105-KE & 105-KW Reactor ISS in Accordance with Removal Action Work Plan	On Schedule

Project Baseline Performance

(Contract to date through December 2015)

RL-0012 Spent Nuclear Fuel Stabilization and Disposal	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Cost Variance (\$)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)	SPI	CPI
Base Total	533.5	534.1	546.5	0.6	12.4	717.2	726.2	9.0	1.00	0.98

RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Cost Variance (\$)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)	SPI	CPI
Base Total	139.8	141.8	111.4	2.0	30.3	220.2	188.2	32	1.01	1.27

Planned Activities

January – June 2016

Sludge Treatment Project

Construction

- Complete Annex Construction Acceptance Testing.
- Complete In-Basin construction design documents and facility modification packages.
- Complete construction work for the re-lidding of the Engineered Containers.
- Award construction contract for removing the North Loadout Pit (NLOP) equipment in T Plant, initiate NLOP removal activities.

Equipment Procurement/Fabrication

- Complete fabrication of first article STSC including instrumentation.
- Complete ECRTS Equipment fabrications required to begin MPAT.

Other Activities

- Complete assembly of ECRTS production equipment at MASF, initiate MPAT activities.
- Complete transfer of segregated settler material into SCS-CON-220.
- Approve Preliminary Documented Safety Analysis Revision 2.

Planned Activities

January – June 2016

100K Minimum Safe

- Perform Radioactive Material Area (RMA) maintenance (postings, barriers, etc.)
- Perform Waste Information Data Systems (WIDS) surveillances at 100K

100K AB Waste Site Remediation

- Begin remediation on 13 additional waste sites
- Continue with VSI and RSVP
- Conduct In-Process Sampling

Planned Activities

January – June 2016

165-KE Asbestos Abatement

- Perform biological cleanup with D&D workers
- Build separation wall in water tunnel
- Perform Beryllium sampling, as necessary
- Complete Modec shower trailer testing
- Begin asbestos abatement

100K Characterization Wells (116-KE-3/UPR-100-K-1)

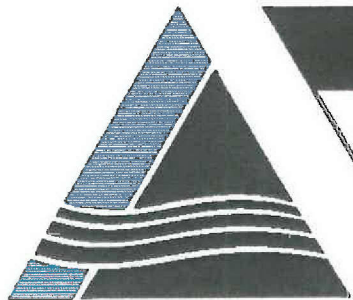
- Receive PNNL leach testing results
- Initiate investigation report

RIVER CORRIDOR CLOSURE PROJECT

DOE's Largest Environmental Cleanup Closure Project

TPA Quarterly Review

For Period: October - December 2015



Tri-Party Agreement

River Corridor Milestones:

M-16

M-89

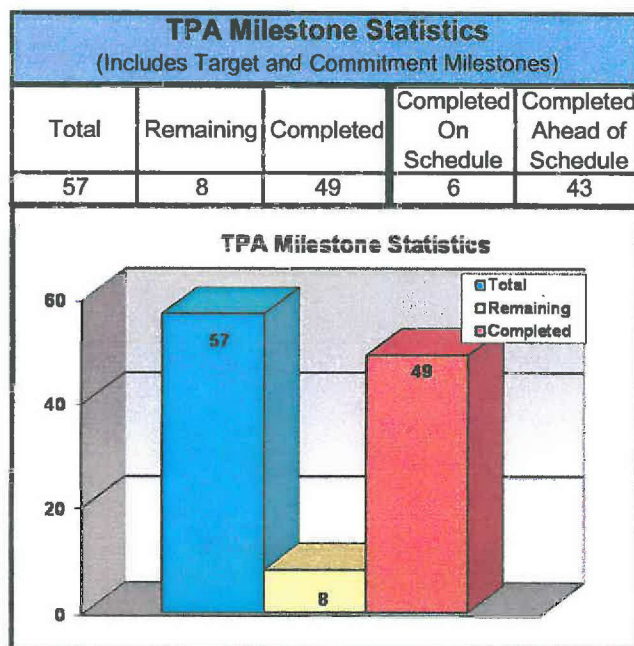
M-94

U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

March 17, 2016

Protecting the Columbia River

E1301026_1



Quarterly Summary (October – December 2015)

- **Completed TPA Milestones:**
 - None for this reporting period.
- **Approved Change Requests:**
 - Change notice M-16-15-09 signed 12/15/15 - Removed 600-385 waste site from TPA Milestone M-016-161; waste site was deferred to TPA Milestone M-16-00A .

RIVER CORRIDOR CLOSURE PROJECT

For Period: October - December 2015

TPA MS No.	Compliance Date	Title	Status	Comments
M-16 Milestones - Remedial Action (milestones through 9/30/2018)				
M-16-149	03/31/16	Complete 100-IU-2/6 Interim Response Actions for Following Sites: 600-293, 600-294, 600-298, 600-299, 600-300, 600-301, 600-303, 600-305, 600-309, 600-310, 600-313, 600-316, 600-318, 600-319, 600-320, 600-321, 600-328, 600-329, 600-331, 600-332, 600-334, 600-326, 600-349, 600-358, 600-368, 600-369, 600-370, 600-371, 600-372, 600-373, 600-374, 600-375, 600-376, 600-377, 600-378, 600-379	Dispute Resolution	Additional characterization plans and associated cultural reviews have delayed completion of 600-349 and Milestone M-016-149. EPA disapproved change notice M-16-15-08 on 12/14/15. RL issued letter to invoke dispute on 12/21/15. On 1/21/16, the dispute was elevated to the IAMIT level and the Statement of Dispute was transmitted from RL to EPA. On 1/28/16, RL and EPA agreed to extend the period of dispute resolution at the IAMIT level until 3/18/16.
M-16-161	03/31/16	Complete Area Interim Response Actions for 18 100-D Area Sites, 10 100-H Area Sites, and 600-385, including revegetation of 100-D and 100-H Waste Sites.	Complete	600-385 was removed from Milestone M-016-161 via approved change notice M-16-15-09 (signed 12/15/15). Completion of 600-385 deferred to Milestone M-016-00A. Milestone completed 2/25/16.
M-16-164	03/31/17	Complete 100-N Interim Response Actions by Performing Remediation of Following Waste Sites: 100-N-28, 100-N-35, 100-N-53, 100-N-54, 100-N-55, 100-N-62, 100-N-68, 100-N-81, 100-N-82, 100-N-83, 100-N-84, 100-N-86, 100-N-87, 100-N-88, 100-N-89, 100-N-90, 100-N-91, 100-N-92, 100-N-93, 100-N-94, 100-N-95, 100-N-96, 100-N-97, 100-N-98, 100-N-99, 100-N-100, 100-N-101, 100-N-102, 100-N-103, 120-N-4, 130-N-1, 600-340, 628-2, UPR-100-N-18, UPR-100-N-20, UPR-100-N-24, Including Backfill/Revegetation of M-016-163 Sites. Close 100-N ancillary facilities areas of contamination in accordance with RAWP for 100-N Area ancillary facilities.	On schedule	Actions required to meet this milestone are outside WCH scope.
M-16-00A	03/31/17	Complete All Response Actions for the 100 Area Units (except groundwater actions which are covered under M-016-00 and 100-K Area Response Actions Addressed in M-016-00C), by the Specified Due Date as Approved in a Remedial Design/Remedial Action Work Plan.	On schedule	Actions required to meet this milestone are outside WCH scope.
M-16-00B	9/30/18	Complete All Interim 300 Area Remedial Actions Including 618-10 and 618-11 Burial Grounds, but not Including Sites Associated with Retained 300 Area Facilities and Utility Corridors.	On schedule	Actions required to meet this milestone are outside WCH scope.

RIVER CORRIDOR CLOSURE PROJECT

For Period: October - December 2015

TPA MS No.	Compliance Date	Title	Status	Comments
M-89 Milestone - 324 Bldg. Non-Permitted MW Units Closure (milestones through 9/30/2018)				
M-89-06	06/30/16	Submit to Ecology in Accordance with Procedures in WAC 173-303-830(4)(b), a Request for a Class 2 Modification to Hanford Dangerous Waste Permit, to Include in Permit the "324 Bldg. Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Area Closure Plan" (Closure Plan), DOE/RL-96-73 revised as necessary to address releases to soil and to ensure compliance with requirements of WAC-173-303-610. DOE's revised closure plan will include a schedule for completing closure activities.	On schedule	
M-89-00	TBE in accordance with M-89-06	Complete Closure of Mixed Waste Units in 324 Building REC B-Cell, REC D-Cell, and High-Level Vault and Low-Level Vault in Accordance with Closure Plan DOE/RL-96-73, as Amended and Incorporated into the Permit.	Program Planning	Actions required to meet this milestone are outside WCH scope.

M-94 Milestone - 300 Area Surplus Facilities Disposition (milestones through 9/30/2018)

M-94-00	09/30/18	Complete Disposition of All 300 Area Surplus Facilities Identified in the Removal Action Work Plan(s) for the 300 Area Facilities Including the 324 Bldg. and its Ancillary Buildings and Structure. Completion of facility disposition is defined as the completion of deactivation, decontamination, decommissioning, and demolition and obtaining EPA and/or Ecology approval of the appropriate project closeout documents. The cleanup of 300-FF-2 waste sites associated with 300 Area surplus facilities and utilities will be performed in accordance with TPA major milestone M-16-00B, M-16-69, and approved RD/RA Work Plans for 300 Area waste sites by the specified due date as approved in Removal or Remedial Action Work Plans.	On schedule	Actions required to meet this milestone are outside WCH scope.
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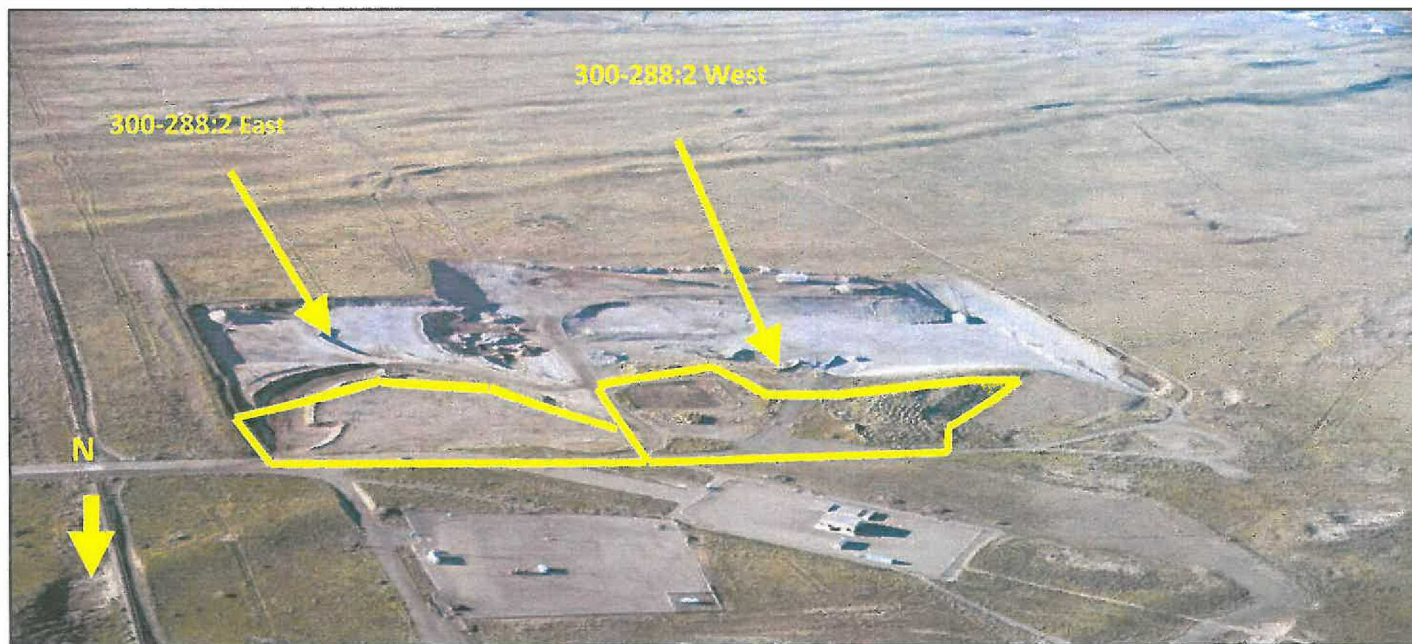
Significant Accomplishments – For Last 3 Months:

M-16 – Remedial Action / Risk Assessment

- Initiated FY16 revegetation campaign in 100-D/H Areas.
- Received cultural clearance for 100-N-83 and 600-385 and completed remediation planning.
- Completed remediation of 300-288:2 East and initiated remediation of 300-288:2 West.
- Completed augering 14 618-10 VPUs to-date and continued in situ characterization.
- Received approval of 2 waste site closure documents.

M-89 – 324 Bldg. Non-Permitted MW Units Closure

- Completed review of 324 Building exhaust fan bearing failure.
- Supported CHPRC senior management and 324 Building exempt employee meeting.
- Supported CHPRC senior management tour of 324 Building.



Aerial View of 300-288:2

Significant Accomplishments – For Last 3 Months (cont'd):

ERDF

- For period October-December, disposed ~ 123,200 tons of waste; bringing total to ~ 17.6 million tons disposed in ERDF.
- Received EPA approval of ERDF vertical expansion design.
- Received approval of ROD amendment to allow in-cell macroencapsulation.
- Provided the Closure Operations Project with transportation, treatment, and disposal support.
- Received shipments of roll-on/roll-off containers, drums, and special-handled waste from other Hanford contractors (OHCs).

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action / Risk Assessment

- Complete excavation of 100-N-83.
- Begin remediation of 600-385.
- Complete FY16 revegetation campaign.
- Complete 618-10 Burial Ground drum retrieval and characterization.
- Begin 618-10 VPU low-level waste retrieval readiness assessment.

M-89 – 324 Bldg. Non-Permitted Mixed Waste Units Closure

- Replace 324 Building exhaust fan bearing.
- Complete transfer of 324 Building to CHPRC.



Disposal Operations on 70" Level of ERDF

ERDF

- Begin implementation of second transportation shift.
- Operate 4 ramps (250 cans/day).
- Commence placing waste in ERDF vertical expansion area.
- Begin in-cell macroencapsulation.
- Receive and offload long-length items from Tank Farms as weather permits.

PERFORMANCE SUMMARY

Contract Inception (8/27/05) through December 2015
(\$K)

						Previous Quarter Comparison			
	IPB		CUMULATIVE			SCHEDULE VAR (\$)		COST VAR (\$)	
	BAC	EAC	BCWS	BCWP	ACWP	Sep	Dec	Sep	Dec
D4	649,205	632,701	648,420	638,360	570,666	-10,884	-10,060	67,711	67,694
Reactor ISS	75,902	81,777	75,902	75,902	81,777	0	0	-5,875	-5,875
Field Remediation	1,010,859	933,578	980,039	890,503	821,812	-93,962	-89,536	62,232	68,690
Waste Operations	639,621	516,635	607,310	624,568	495,426	10,467	17,257	121,535	129,142
ES/FC	80,859	60,255	79,235	77,173	59,125	-2,379	-2,062	17,644	18,047
Mission/General Support	438,827	408,685	417,850	417,850	381,804	0	0	32,524	36,046
Transition	3,979	3,747	3,979	3,979	3,747	0	0	232	232
Contingency						0	0	0	0
TARGET COST TOTAL	2,899,253	2,637,379	2,812,735	2,728,334	2,414,359	-96,759	-84,401	296,002	313,976

Schedule Variance (PMB): (\$84,401K)

- Variance associated with 100-D, 100-H, 100-N, 618-10, and 300 Area remediation delays. 618-11 negative schedule variance is due to funding constraints.
- Delay in D4 due to waste site discovered beneath 324 Building. Min-safe activities will continue until in-cell waste site remediation is complete.

Cost Variance (PMB): \$313,976K

- Significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities; and in utility charges and surveillance and maintenance activities.
- 100-B/C, 100-D, 100-F, and 100-IU-2/6 remediation underruns due to favorable subcontract rates largely offset by overruns at 300 Area due to delayed release of facilities, and 618-10 due to quantity growth and change to hazard category 3.
- Costs have been less than planned due to Waste Operations efficiencies achieved in waste treatment, transportation, disposal, and construction; and Mission/General Support efficiencies in Project Services, Project Integration, and Office of General Manager.

RCC Issues

600-349 Waste Site Cultural Resource Review

- **Issue:** Unexploded ordnance removal has been completed at the waste site, however, additional sampling to confirm protectiveness requires that a National Historic Preservation Act (NHPA) Section 106 review be completed. The process will extend beyond the TPA milestone date and dispute has been initiated with EPA on the milestone.

Status: Sampling has been agreed to with EPA and the NHPA Section 106 review is in-process. Change package M-16-15-08 proposes moving the waste site to a later milestone. This change package was disapproved by EPA on 12/14/15. Dispute resolution has been extended to 3/18/16 by the Tri-Parties.



M-035-09

***Conduct Biennial Assessments Of
Information And Data Access Needs***

M-035-09J Status

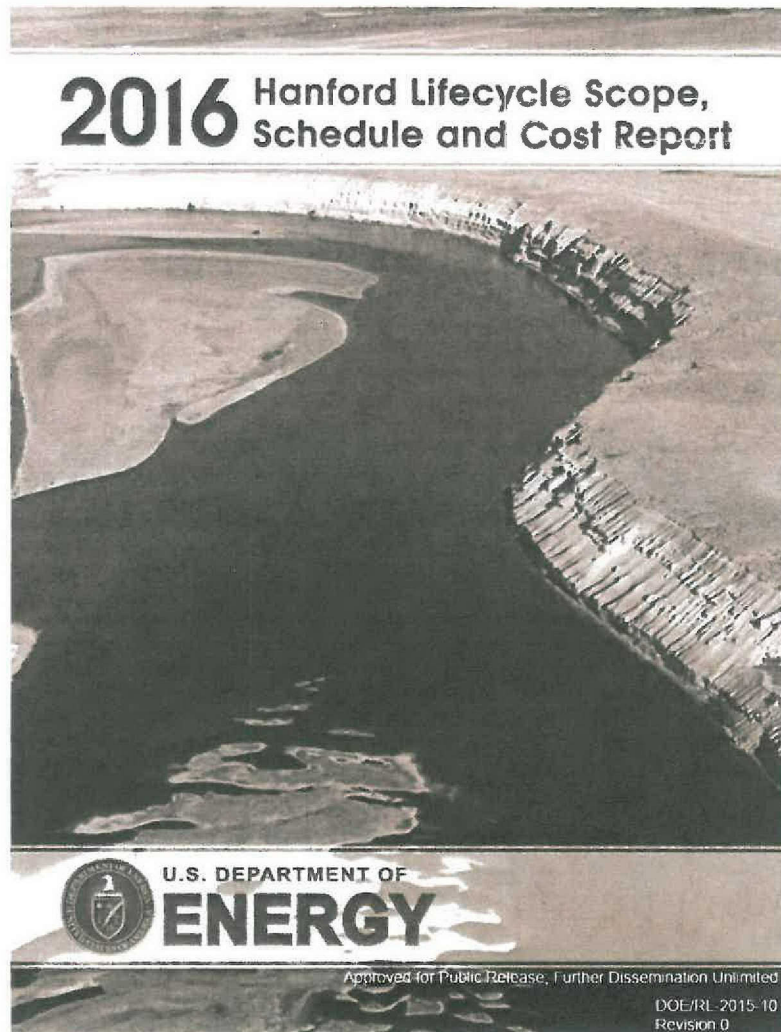
- “Conduct Biennial Assessments Of Information And Data Access Needs With EPA And Ecology. DOE Will Propose Implementation Schedules (TPA Milestones) For Enhancements As A Result Of The Biennial Assessments. Due 3/31/98 (and biennially thereafter).”
- M-035-09J due March 31, 2016
- Completed (16-AMRP-0115) and signed by the Tri-Party Agencies February 25, 2016

M-035-09J Accomplishments since 2014

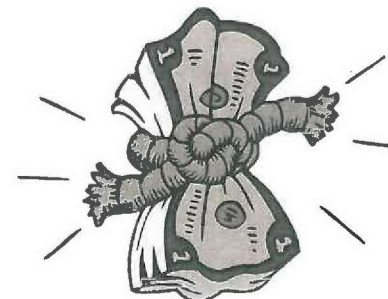
- Updated and demonstrated the VHCAR process
- Set up direct IT support for regulators with HLAN access ([^Federal IT Support](#))
- Refined Ecology HLAN account renewal process

M-035-09J Planned Activities

- Adjust default splash screen and profile settings at login
- Update DOE/RL-93-69, *Tri-Party Agreement Databases, Access Mechanism, and Procedures*
- Meet in April



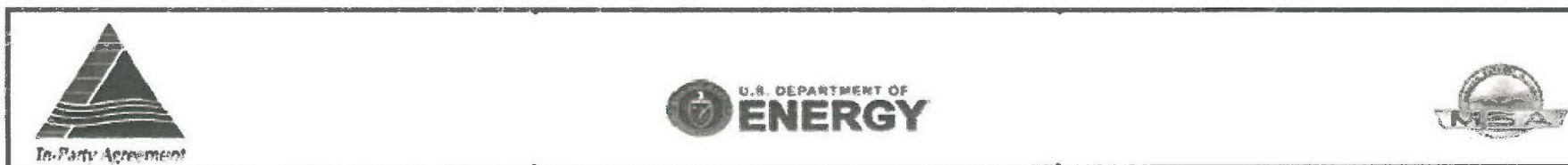
Hanford Lifecycle Scope, Schedule and Cost Report



TPA Milestone: M-036-01 Quarterly Performance Report

March 17, 2016

Shannon Ortiz, DOE-RL
Lifecycle Report Project Manager



MILESTONE DESCRIPTION AND DELIVERABLE

1. The U.S. Department of Energy (DOE) shall prepare and submit to the U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology) a report setting out the lifecycle scope, schedule and cost for completion of the Hanford Site cleanup mission.
2. The initial Hanford Lifecycle Scope, Schedule and Cost Report (Lifecycle Report) was submitted to DOE on July 25, 2011, and subsequent reports to 2016 were due January 31 of each year.
3. TPA Change Notice M-36-16-01 would change the M-036-01 due date from annual to every five years, or earlier when the agencies agree that a significant baseline change has occurred in the Hanford cleanup mission. The change form has not been signed.



RL PROGRAM MANAGERS' ASSESSMENT OF CONTRACTOR PERFORMANCE

1. The contractor responsible for the Lifecycle Report is Mission Support Alliance, Portfolio Management.
2. There were no performance issues related to development and preparation of the 2016 Lifecycle Report.



SIGNIFICANT ACCOMPLISHMENTS FOR THE LAST THREE MONTHS

1. DOE submitted the Final 2016 Lifecycle Report to EPA and Ecology on January 20, 2016.
2. The 2016 Lifecycle Report and Fact Sheet were posted on www.hanford.gov and an email notice was sent out on February 22, 2016. Feedback was requested by April 15, 2016.
3. The agencies are reviewing TPA Change Notice M-36-16-01. EPA requested public notification that the agencies are considering this change.



SIGNIFICANT PLANNED ACTIONS FOR THE NEXT SIX MONTHS

1. Review public feedback on the 2016 Lifecycle Report for inclusion in the next report.
2. Depending on whether TPA Change Notice M-36-16-01 is signed, either plan for development of the 2017 Lifecycle Report or archive the 2016 Lifecycle Report files for use in preparing the next report.



STATUS AND ISSUES

BUDGET/COST STATUS

No major issues identified.

ISSUES

No major issues identified.

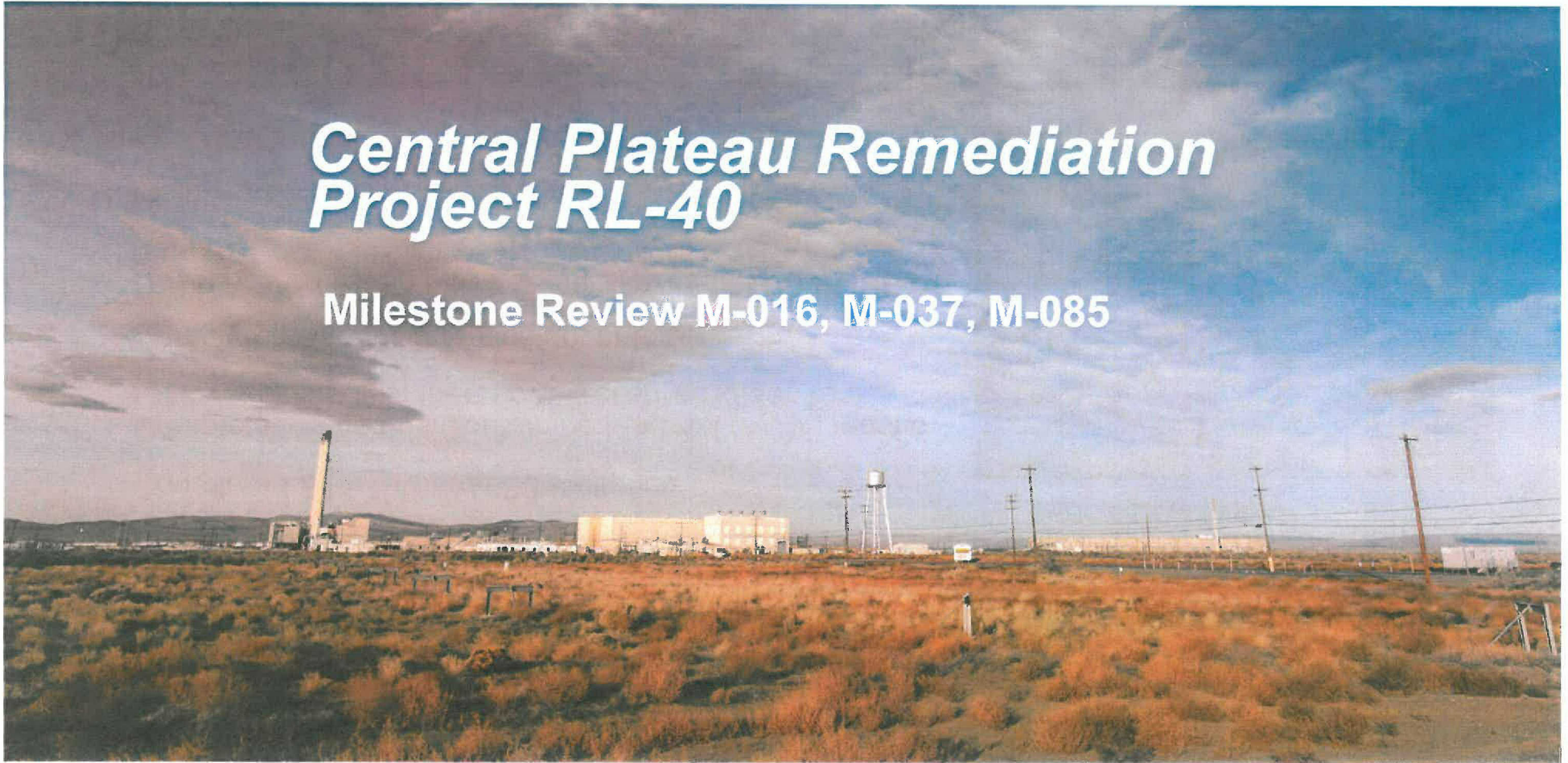
NON-TPA REGULATORY ISSUES/POTENTIAL IMPACTS TO TPA

No major issues identified.



Central Plateau Remediation Project RL-40

Milestone Review M-016, M-037, M-085



U.S. Department of Energy
U.S. Environmental Protection Agency
State of Washington, Department of Ecology

First Quarter FY 2016
March 17, 2016



Accomplishments

1st Quarter 2016

Minimum Safe/Maintenance Activities

- Completed backfilling 216-T-6 (subsidence issue)
- Completed disposition of legacy transformers at Reduction–Oxidation S Plant (REDOX)
- Completed 200E Tri Annual Surveillance
- Replaced B Plant Vortex Damper EF-1
- Replaced belt and sheave on B-Plant Exhaust Fan
- Completed 224-T Annual Surveillance
- Completed Asbestos Containing Material (ACM) mastic removal of REDOX Inert Low Pressure Holder Tank
- Completed Annual Chemical Inventory
- Down posted Radioactive Material Area (RMA) PUREX-005, REDOX, U Plant
- Installed spill kit in 221-BK



REDOX Surveillance



Accomplishments

1st Quarter 2016

Nuclear Safety

- Drafted B-Plant Documented Safety Analysis (DSA), Rev. 6
- Completed implementation of 224-T Facility DSA, Rev. 6
- Approved PUREX DSA, Rev. 8
- Submitted 216-Z-9 Safety Basis to RL Nuclear Safety Division (NSD) for review
- Resolved Tank 241-Z-361 Safety Basis Review Comment Record (RCR) Comments
- Completed hazard categorization for REDOX ancillary structures; DSA updated



207A South Retention Basin Closure

- Completed demolition, down posting and sampling for 207A Clean Closure
- Resolved comments from Public Review of Closure Plan and State Environmental Policy Act (SEPA) checklist
- Received analytical results from sampling of soil to verify that cleanup levels have been met; awaiting completion of 3rd party validation and verification
- Drafted request for extension of Temporary Authorization

Accomplishments

1st Quarter 2016

Canyon Stabilization Documents

- Continued progress on REDOX, PUREX and B Plant Fire Hazard Analysis (FHA)
- Initiated REDOX, PUREX, and B Plant Engineering Evaluation Cost Analysis (EE/CA)
- Drafted Closure Plan for the B-Plant Iso-Chem Treatment Storage and/or Disposal (TSD) Tank
- Drafted DSA updates to incorporate into the CY15 REDOX DSA Update
- Finalizing DSA changes to support Canyon Risk Mitigation efforts for REDOX

Additional Work

- Continued 90% Design for REDOX Roof Replacement
- Suspect Plutonium Nitrate Bags: Initiated development of waste procedure for TRU waste
- Demolish REDOX Ancillary Facilities: Initiated characterization, cold and dark, and demolition planning and work package preparation

Milestone Summary

Milestone	Due Date	Description	Status
M-016-00 Complete Remedial Actions For All Non-Tank Farm & Non-Canyon OUs			
P-016-250	3/31/2016	Develop a three year rolling prioritized schedule consistent with site-wide clean-up priorities to implement waste site removal actions	Tentative Agreement
M-016-200A	9/30/2017 9/30/2024*	Complete U Plant canyon (221 U Facility) demolition in accordance with the Remedial Design/Remedial Action Work Plan.	Tentative Agreement
M-016-200B	9/30/2021 9/30/2027*	Complete U Plant (221 U Facility) barrier construction in accordance with the Remedial Design/Remedial Action Work Plan.	Tentative Agreement
M-037 TSD Closure Activities			
M-037-10	9/30/2020	Complete Unit-Specific Closure Requirements According To The Closure Plan(s) For <u>six (6)</u> seven (7) TSD Units: 207-A South Retention Basin, 216-A-29 Ditch, 216-A-36B Crib, 216-A-37-1 Crib, 216-B- 63 Trench, <u>and</u> Hexone Storage and Treatment Facility (276-S-141/142), and 241-CX Tank System (241-CX-70/71/72).	Tentative Agreement
P-037-13	9/30/2022	Complete unit specific closure requirements for 241-CX Tank System	Tentative Agreement
M-037-11	9/30/2016 9/30/2024*	Complete unit-specific closure requirements for two (2) TSD Units: 216-B-3 Main Pond system and 216-S-10 Pond and Ditch.	Tentative Agreement
P-037-12	9/30/2025*	Complete unit specific closure requirements for NRDWL, SWL and 400 Are WM FSF and ISA.	Tentative Agreement

Note:

Tentative Agreement deletions are shown in ~~strikeout~~

Proposed milestone start with a P

* Modified after public comments received

Milestone Summary

Milestone	Due Date	Description	Status
M-085-00 Complete Response Actions for Specified Canyon Facilities & Waste Sites			
P-085-82	12/31/2017	Submit engineering evaluation/cost analysis (EE/CA) to Ecology for a non-time-critical removal action to address high priority cleanup for the PUREX Plant in the 200-CP-1 operable unit.	Tentative Agreement
P-085-74	6/30/2018	Submit engineering evaluation/cost analysis (EE/CA) to Ecology for a non-time-critical removal action to address high priority cleanup for B Plant Canyon in the 200-CB-1 operable unit.	Tentative Agreement
P-085-80A*	9/30/2018	Submit preliminary report on structural integrity of PUREX Storage Tunnel #1	Tentative Agreement
P-085-72	9/30/2020	Submit Removal Action Work Plan for 224-B to Ecology.	Tentative Agreement
P-085-100	9/30/2020	Submit Removal Action Work Plan for 224-T to EPA.	Tentative Agreement
M-085-01	9/30/2022	Submit a Change Package to Establish Date for Major Milestone M-085-00.	On Schedule
P-085-76	9/30/2025	Initiate response actions in accordance with action memorandum for a non-time-critical removal action to address high priority cleanup for B Plant Canyon in the 200-CB-1 operable unit.	Tentative Agreement
P-085-84	9/30/2025	Initiate response actions in accordance with action memorandum for a non-time-critical removal action to address high priority cleanup for the PUREX Plant in the 200-CP-1 operable unit.	Tentative Agreement

Note:

Tentative Agreement deletions are shown in ~~strikeout~~

Proposed milestone start with a P

* Modified after Public Comments Received

Project Baseline Performance

Through December 2015

BS 040/RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Cost Variance (\$)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)	SPI	CPI
Total	120.6	120.4	107.8	-0.2	12.6	188.0	172.1	15.9	1.00	1.12

Numbers are rounded to the nearest \$0.1M

Planned Activities

January – June 2016

Minimum Safe/Maintenance Activities

- Replace doors at 242-B/BL
- Continue Beryllium assessments
- Continue Fire Protection assessments
- Complete annual CX-70/71/72 Surveillance post job
- Replace Vortex Damper EF-2 at B-Plant
- Complete Annual Inspection of 207-A
- Initiate/Perform B Plant, PUREX and Miscellaneous Facility Annual Surveillances

B Plant Vortex Damper



Planned Activities

January – June 2016 (Continued)

Nuclear Safety

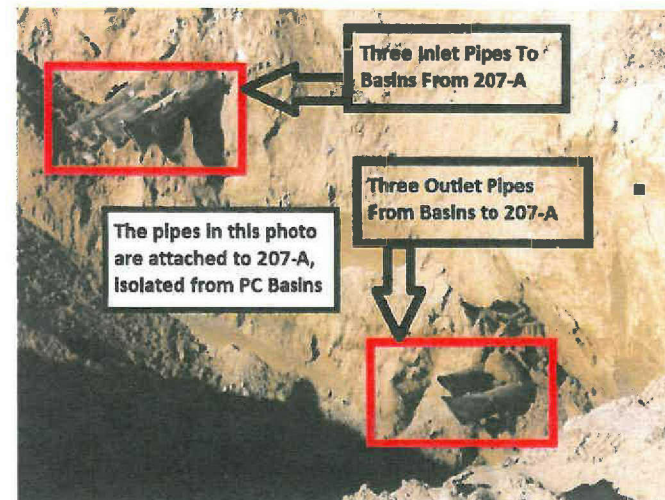
- Issue 224-B DSA, Rev. 8
- Implement B-Plant (Rev. 6) and PUREX (Rev. 8) DSAs
- Commence annual DSA updates for PUREX (Rev. 9), B-Plant (Rev. 7), and REDOX (Rev. 6)
- Implement Tank 241-Z-361 DSA (Rev. 2) and TSR (Rev. 3) which includes transitioning from PFP to CP S&M
- Implement 216-Z-9 DSA (Rev. 0) and Technical Safety Record (TSR) (Rev. 0) which includes transitioning from PFP to CP S&M.

207A South Retention Basin Closure:

- Revise Part A Dangerous Waste Permit Application
- Document the Validation and Verification Samples
- Complete Certifications Closure
- Assist Ecology in response to public review and permit issuance



207A Sampling



Planned Activities

January – June 2016 (Continued)

Canyon Stabilization Documents

- Submit B-Plant Iso-Chem Tank Closure Plan to Ecology
- Draft REDOX, PUREX and B Plant EE/CAs

Other Work:

- Continue planning for removal of suspect plutonium nitrate bags at REDOX
- Continue planning and initiate demolition of high risk facilities at REDOX facilities including 2710S, 2711S, and 2718S
- Receive new rad detection vehicles including Rad Tractor, Truck and ORV
- Complete 90% Design for REDOX Roof Replacement

Soil and Groundwater Remediation Project Milestone Review

M-015, M-016, M-024, M-085



U.S. Department of Energy
U.S. Environmental Protection Agency
State of Washington, Department of Ecology

First Quarter FY 2016
March 17, 2016



Accomplishments

1st Quarter 2016

River Corridor

- 100-BC-5:
 - Received EPA approval of the Rev 2, 100-BC-5 Sampling and Analysis Plan on December 9, 2015
 - Completed the 2-year hyporheic zone sampling initiative for TPA milestone M-015-78. More than 1,300 hexavalent chromium samples were collected during this period
- 100-NR-2:
 - Transmitted Interim Action RD/RAWP and the Integrated SAP to Ecology for review; received comments
 - Received tribal approval of the 100-N well drilling Memorandum of Agreement (MOA) in December 2015
- 300-FF-5:
 - Completed field work for the 300-FF-5 Stage A Uranium Sequestration on November 18, 2015



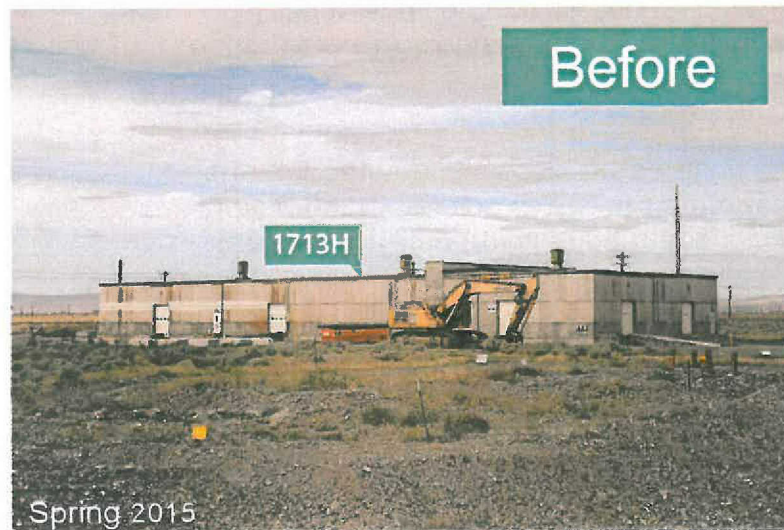
Worker performing injection sampling to support the Uranium Sequestration System in the 300 Area

Accomplishments

1st Quarter 2016

River Corridor (Cont.)

- 100-HR-3:
 - Completed demolition of 1713-H warehouse superstructure



Workers completed demolition of an old S&GRP warehouse near the Columbia River shoreline on the Hanford Site. The goal was to complete work by 2018 but workers finished the job 3 years ahead of schedule.

Accomplishments

1st Quarter 2016

Central Plateau

- 200-BP-5:
 - Completed the 200-BP-5 Treatability Test November 18, 2015
- 200-PW-1:
 - Received EPA approval to permanently shut down of Soil Vapor Extraction (SVE) system ahead of schedule due to treatment success; preparation of remedial action report under way
- 200-UP-1:
 - Completed TPA M-016-191 by initiating startup operations and completing Acceptance Test Procedures and Operational Test Procedures for I-129 hydraulic containment.
 - Completed procurement of drilling subcontractor for three of six characterization wells for southeast chromium plume
 - Continued drilling four wells for remedy performance monitoring
- 200-DV-1
 - Completed modification of Perched Water System to include three extraction wells



Drilling of 200-UP-1 Well 299-W19-116

Issues

1st Quarter 2016

Central Plateau

- 200-BP-5/200-PO-1:
 - Ecology issued a letter on October 23, 2015, that provided notice of suspension of review of the 200-BP-5 RI and the 200-PO-1 RI report addendum due to fate and transport modeling issues. In dispute is the role of the Tank Closure & Waste Management EIS model use in these CERCLA investigations. A workshop with RL, Ecology, and EPA was held on January 20, 2016. Ecology will resume review of these reports while follow on workshops to explain modeling approach are conducted.

Milestone Summary

TPA Number	Milestone or Target Date	Description	Status
M-015-00*	12/31/2016 6/30/26	Complete the RI/FS (or RFI/CMS and RI/FS) process for all non-tank farm operable units except for canyon/associated past practice waste site OUs covered in M-085.	Tentative Agreement
M-015-112	2/28/14	Submit Draft B 200-IS-1 RFI/CMS/RI/FS Work Plan to Ecology with Schedule Dates	Dispute Resolution
M-015-78	2/28/16	Complete 2 Yrs of GW and Aquifer Tube Sampling at 100-BC Expanded Monitoring Network	Complete
M-015-79	12/15/16	Submit CERCLA Remedial Investigation/Feasibility Study Report & Proposed Plan for 100-BC-1/2/5	On Schedule
M-015-92A	6/30/15 9/30/17	Submit RCRA FI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	Tentative Agreement
M-015-21A	6/30/15 6/30/18	Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology	Tentative Agreement
P-015-96	8/31/18	Submit 100-OL-1 RI report and change request for FS report to EPA and Ecology	Tentative Agreement
P-015-93C*	9/30/18	Initiate characterization of the 200-SW-2 OU unlined landfills	Tentative Agreement
P-015-98	6/30/19	Complete remedial investigations of U Plant wastes sites located in 200-WA-1 in accordance with WP	Tentative Agreement
P-015-99	6/30/19	Complete remedial investigations of PFP wastes sites located in 200-WA-1 in accordance with WP	Tentative Agreement
M-015-91B	12/31/15 7/31/21	Submit FS Report & Proposed Plan for the 200-BC-1/200 -WA-1 OU	Tentative Agreement
M-015-92B	12/31/16 11/30/22	Submit RFI/CMS & RI/FS Reports & Proposed CA Decision/PP for 200-EA-1- & 200-IS-4	Tentative Agreement
M-015-93B	12/31/16 1/31/23	Submit RCRA FI/CMS & RI/FS Report & Proposed CA Decision/PP for 200-SW-2	Tentative Agreement
P-015-92C	3/31/23	Submit RCRA FI/CMS and RI/FS and PCAD/PP for 200-IS-1 to Ecology	Tentative Agreement
M-015-38B	10/30/15 7/31/23	Submit Rev'd FS Report & Rev'd PP for CW-1, CW-3 & OA-1 to EPA	Tentative Agreement
M-015-110B	9/30/15 9/30/23	Submit CMS & FS & Proposed Plan/CA Decision for 200-DV-1 OU	Tentative Agreement

Note:

Tentative Agreement deletions are shown in ~~strikeout~~

Proposed milestone start with a P

* Modified after public comments received

Milestone Summary

TPA Number	Milestone or Target Date	Description	Status
M-016-00	9/30/24 9/30/42*	Complete remedial actions for all non-tank farm & non-canyon OUs	Tentative Agreement
M-016-191	3/30/16	Complete Acceptance/Operation Test Procedures and Initiate Operations of U Plant Area Pump & Treat	Complete
M-016-192	6/17/16	Submit the I-129 Technology Evaluation Plan Draft A per 200-UP-1 RD/RA WP	Complete
M-016-110-T03	12/31/16	Take Actions To Contain Sr-90 GW Plume at 100-NR-2 OU	At Risk
M-016-110-T04	12/31/16	Implement Remedial Actions in All 100A RODS For GW Ous	On Schedule
M-016-193	9/30/17	Investigate SE Chromium Plum per 200-UP-1 RD/RAWP	On Schedule

Note:

Tentative Agreement deletions are shown in ~~strikeout~~

Proposed milestone start with a P

* Modified after public comments received

Milestone Summary

TPA Number	Milestone or Target Date	Description	Status
M-024-00O	TBD	Complete Well Installations with RCRA/CERCLA Requirements	In Program Planning
M-024-58I	6/1/16	Initiate Discussions of Well Commitments	On Schedule
M-024-67-T01	8/1/16	Conclude Discussions of Well Commitments	On Schedule
M-024-67	12/31/16	Complete Construction of All Wells Listed for CY 2016 and Before as Identified in M-24-13-01	Complete
M-024-58J	6/1/17	Initiate Discussions of Well Commitments	On Schedule
M-024-68-T01	8/1/17	Conclude Discussions of Well Commitments initiated under M-024-58	On Schedule
M-024-68	12/31/17	Complete Construction of All Wells Listed for CY 2017 and Before as Identified in M-024-14-01	On Schedule
M-024-58K	6/1/18	Initiate Discussions of Well Commitments	On Schedule
M-024-69-T01	8/1/18	Conclude Discussions of Well Commitments initiated under M-024-58	On Schedule
M-024-69	12/31/18	DOE shall complete the construction of all wells listed for calendar year 2018 and before, as identified in TPA CP M-24-15-01	On Schedule
M-085-00	TBD	Complete Response Actions for Specified Canyon Fac. & Waste Sites	In Program Planning
P-085-70	9/30/19	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CB-1 to Ecology	Tentative Agreement
P-085-80	9/30/20	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CP-1 to Ecology	Tentative Agreement
P-085-90	9/30/21	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CR-1 to EPA	Tentative Agreement

Note:

Tentative Agreement deletions are shown in ~~strikeout~~

Proposed milestone start with a P

* Modified after public comments received

Project Baseline Performance

Through December 2015

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	1,181.8	1,172.8	1,153.0	-9.1	-0.8%	19.8	1.7%	1,568.0	1,516.7	51.3
Numbers are rounded to the nearest \$0.1 million.										

Planned Activities

January – June 2016


- Finalize and implement all RCRA monitoring plans and CERCLA SAPs generated in CY2015
- Design and begin implementation of P&T optimization
- Begin membrane bioreactor cassette installation
- Issue technical memo for Stage A 300-FF-5 uranium sequestration injections and complete post treatment leachability tests
- Issue Rev 0 200-WA-1/200-BC-1 RI/FS Work Plan
- Continue 200-BP-5 groundwater removal per treatability test while EECA/AM is in process
- Initiate drilling and construction of 100 FIU monitoring wells
- Install roads and pads and initiate drilling of three SE chrome plume monitoring wells (M-016-193)
- Address mitigation measures, install roads and pads, and initiate drilling of 6 100-NR-2 monitoring wells (M-024)


Central Plateau Remediation Project RL-40

Milestone Review M-016, M-037, M-085

U.S. Department of Energy
U.S. Environmental Protection Agency
State of Washington, Department of Ecology

First Quarter FY 2016
March 17, 2016






Accomplishments


1st Quarter 2016


Minimum Safe/Maintenance Activities


- Completed backfilling 216-T-6 (subsidence issue)
- Completed disposition of legacy transformers at Reduction-Oxidation S Plant (REDOX)
- Completed 200E Tri Annual Surveillance
- Replaced B Plant Vortex Damper EF-1
- Replaced belt and sheave on B-Plant Exhaust Fan
- Completed 224-T Annual Surveillance
- Completed Asbestos Containing Material (ACM) mastic removal of REDOX Inert Low Pressure Holder Tank
- Completed Annual Chemical Inventory
- Down posted Radioactive Material Area (RMA) PUREX-005, REDOX, U Plant
- Installed spill kit in 221-BK



REDOX Surveillance







2

Milestone Summary

Milestone	Due Date	Description	Status
M-016-00 Complete Remedial Actions For All Non-Tank Farm & Non-Canyon OUs			
P-016-250	3/31/2016	Develop a three year rolling prioritized schedule consistent with site-wide clean-up priorities to implement waste site removal actions	Tentative Agreement
M-016-200A	9/30/2017 9/30/2024*	Complete U Plant canyon (221 U Facility) demolition in accordance with the Remedial Design/Remedial Action Work Plan.	Tentative Agreement
M-016-200B	9/30/2024 9/30/2027*	Complete U Plant (221 U Facility) barrier construction in accordance with the Remedial Design/Remedial Action Work Plan.	Tentative Agreement
M-037 TSD Closure Activities			
M-037-10	9/30/2020	Complete Unit-Specific Closure Requirements According To The Closure Plan(s) For six (6) seven (7) TSD Units: 207-A South Retention Basin, 216-A-29 Ditch, 216-A-38B Crib, 216-A-37-1 Crib, 216-B-63 Trench, and Hexone Storage and Treatment Facility (276-S-141/142) and 241-CX Tank System (241-CX-70/74/72).	Tentative Agreement
P-037-13	9/30/2022	Complete unit specific closure requirements for 241-CX Tank System	Tentative Agreement
M-037-11	9/30/2016 9/30/2024*	Complete unit-specific closure requirements for two (2) TSD Units: 216-B-3 Main Pond system and 216-S-10 Pond and Ditch.	Tentative Agreement
P-037-12	9/30/2025*	Complete unit specific closure requirements for NRDL, SWL and 400 Are WM FSF and ISA.	Tentative Agreement

Note:
Tentative Agreement deletions are shown in strikethrough
Proposed milestone start with a P
* Modified after public comments received

Milestone Summary

Milestone	Due Date	Description	Status
M-085-00 Complete Response Actions for Specified Canyon Facilities & Waste Sites			
P-085-82	12/31/2017	Submit engineering evaluation/cost analysis (EE/CA) to Ecology for a non-time-critical removal action to address high priority cleanup for the PUREX Plant in the 200-CP-1 operable unit	Tentative Agreement
P-085-74	6/30/2018	Submit engineering evaluation/cost analysis (EE/CA) to Ecology for a non-time-critical removal action to address high priority cleanup for B Plant Canyon in the 200-CB-1 operable unit.	Tentative Agreement
P-085-50A*	9/30/2018	Submit preliminary report on structural integrity of PUREX Storage Tunnel #1	Tentative Agreement
P-085-72	9/30/2020	Submit Removal Action Work Plan for 224-B to Ecology.	Tentative Agreement
P-085-100	9/30/2020	Submit Removal Action Work Plan for 224-T to EPA.	Tentative Agreement
M-085-01	9/30/2022	Submit a Change Package to Establish Date for Major Milestone M-085-00.	On Schedule
P-085-76	9/30/2025	Initiate response actions in accordance with action memorandum for a non-time-critical removal action to address high priority cleanup for B Plant Canyon in the 200-CB-1 operable unit.	Tentative Agreement
P-085-84	9/30/2025	Initiate response actions in accordance with action memorandum for a non-time-critical removal action to address high priority cleanup for the PUREX Plant in the 200-CP-1 operable unit.	Tentative Agreement

Notes:
Tentative Agreement deletions are shown in strikethrough
Proposed milestone start with a P
* Modified after Public Comments Received

Project Baseline Performance

Through December 2015

95 050RL-0049 Nuclear Facility D&O	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (%)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)	SPI	CPI
Total	120.6	120.4	107.8	-0.2	12.6	188.0	172.1	15.9	1.00	1.12

Numbers are rounded to the nearest \$0.1M

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7

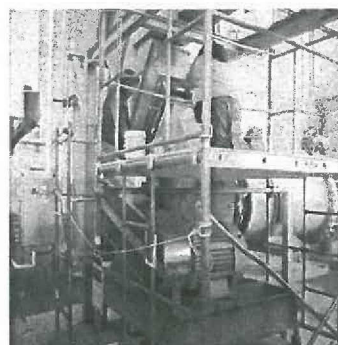
Planned Activities

January – June 2016

Minimum Safe/Maintenance Activities

- Replace doors at 242-B/BL
- Continue Beryllium assessments
- Continue Fire Protection assessments
- Complete annual CX-70/71/72 Surveillance post job
- Replace Vortex Damper EF-2 at B-Plant
- Complete Annual Inspection of 207-A
- Initiate/Perform B Plant, PUREX and Miscellaneous Facility Annual Surveillances

B Plant Vortex Damper



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Planned Activities

January – June 2016 (Continued)

Nuclear Safety

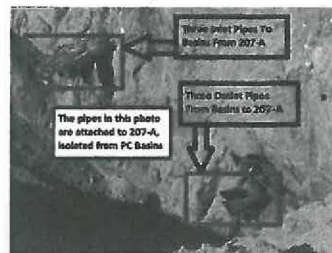
- Issue 224-B DSA, Rev. 8
- Implement B-Plant (Rev. 6) and PUREX (Rev. 8) DSAs
- Commence annual DSA updates for PUREX (Rev. 9), B-Plant (Rev. 7), and REDOX (Rev. 6)
- Implement Tank 241-Z-361 DSA (Rev. 2) and TSR (Rev. 3) which includes transitioning from PFP to CP S&M
- Implement 216-Z-9 DSA (Rev. 0) and Technical Safety Record (TSR) (Rev. 0) which includes transitioning from PFP to CP S&M.

207A South Retention Basin Closure:

- Revise Part A Dangerous Waste Permit Application
- Document the Validation and Verification Samples
- Complete Certifications Closure
- Assist Ecology in response to public review and permit issuance



207A Sampling



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Planned Activities

January – June 2016 (Continued)

Canyon Stabilization Documents

- Submit B-Plant Iso-Chem Tank Closure Plan to Ecology
- Draft REDOX, PUREX and B Plant EE/CAs

Other Work:

- Continue planning for removal of suspect plutonium nitrate bags at REDOX
- Continue planning and initiate demolition of high risk facilities at REDOX facilities including 2710S, 2711S, and 2718S
- Receive new rad detection vehicles including Rad Tractor, Truck and ORV
- Complete 90% Design for REDOX Roof Replacement

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TPA Decision Document List

	Geographical Areas	ROD Area Location	Document	Milestone	Milestone Due Date	Regulatory Review	DOE Lead	Contractor Lead	Regulatory Lead	Agency	Comments/Issues
1	Central Plateau Source Inner Area	200-IS-1 200 East Inner Area/Pipelines	RFI/CMS & RI/FS Work Plan - Draft B	M-015-112: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for 200-IS 1 OU to Ecology Dispute Resolution	2/28/2014	TBD	D. Hildebrand	B. Day	N. Menard	Ecology	Dispute Resolution extended to March 31, 2016 . RL and Ecology are continuing the Work Plan preparation workshops as part of the RI/FS WP development.
2	Central Plateau Source Inner Area	200-EA-1 200 East Inner Area	RFI/CMS & RI/FS Work Plan	M-015-92A: Submit a RCRA Facility Investigation/Corrective Measures Study & Remedial Investigation/Feasibility Study work plan for the 200-EA-1 operable unit to Ecology	6/30/2015	TBD	D. Hildebrand	B. Day	N. Menard	Ecology	Project not funded in FY14 and FY15; Tentative Agreement extends due date to 9/30/2017.
3	Central Plateau Source Inner Area	200-EA-1 200 East Inner Area	TSD - Closure Plans for 207-A South Retention Basin (DOE/RL-2005-89 R0), 216-A-29 Ditch (DOE/RL-2008-53 R1), 216-A-368 Crib (DOE/RL-2005-90 R0), 216-A-37-1 Crib (DOE/RL-2005-88 R0), and 216-B-63 Trench (DOE/RL-2006-11 R1)	M-037-02: Submit Revised Closure Plan to support TSD closure for five (5) TSD Units Complete	MS Completed 6/23/14	6/24/201412/9/2014	J. Axtel	P. Baynes	N. Menard	Ecology	Public review for 207-A Closure Plan scheduled for January 2016 is now planned for March. Remaining closure plans have RCRA/CERCLA integration issues.
4	Central Plateau Source Inner Area	200-IS-1	TSD - Closure Plan for the Hexone Storage and Treatment Facility TSD Unit	M-037-01: Submit Revised Closure Plan to support TSD closure of the Hexone Storage and Treatment Facility (276-S-141/142) TSD Unit. Complete	MS Completed 7/16/2010		D. Hildebrand	P. Baynes	N. Menard	Ecology	Comments received. Anticipated to start in 2017 if funding is available.
5	Central Plateau Source Inner Area	200-WA-1 and 200-BC-1 200 West Inner Area	RI/FS Work Plan	M-015-91A: Submit a Remedial Investigation/Feasibility Study Work Plan for the 200-WA-1 operable unit to EPA Complete	MS Completed 12/27/2011	10/1/201511/16/2015	J. Sands	M. Byrnes	C. Cameron	EPA	Draft B WA-1 RI/FS Work Plan was submitted to EPA on September 17, 2015. Received EPA comments in November. Revising draft per comments and to show distinct work areas.
6	Central Plateau Source Inner Area	200-SW-2 200 West Inner Area & 200 East Inner Area	RFI/CMS & RI/FS Work Plan - Draft B	M-015-113: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for the 200-SW-2 OU to Ecology Complete	MS Completed 3/25/2015	4/1/20155/26/2015	D. Hildebrand	B. Day	D. Singleton	Ecology	RL requested, and was granted, a 90 day extension (22 October 15) due to the integration with the Principles and Parameters negotiations. A second extension was requested on October 18, 2015; Ecology agreed to extend comment resolution to the end of March 2016. Incorporating Principles and Parameters into Rev 0 for submittal in May. Request for extension will be submitted.
7	Central Plateau Source Inner Area	200-PW-1/3/6, CW-5 200 West and 200 East	RD/RAWP	M-016-125: Submit a Remedial Design/Remedial Action Work Plan for 200 CW-5 and 200-PW-1/3/6 to EPA as described in section 12.4 of the associated ROD. Complete	MS Completed 9/30/2015	10/1/201511/16/2015	B. Long	P. Baynes	E. Lalja	EPA	Document was submitted to EPA on September 30, 2015. EPA comments were received in November. RL requested an extension of comment resolution to 6/1/2016.
8	Central Plateau Source Deep Vadose Zone	200-DV-1 Deep Vadose Zone	RI/FS Work Plan	M-015-110A: Submit RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for the 200-DV-1 OU to Ecology. The work plan shall include technology screening that identifies technologies applicable for characterization, treatment, and monitoring of deep vadose zone contaminants. Complete	MS Completed 3/18/2015	4/1/20156/24/2015	J. Morse	M. Byrnes	D. Goswami	Ecology	November 16, 2015 letter from RL to Ecology (16-AMRP-0027) requested the date for issuing the final RI/FS WP be extended to January 15, 2016. Incorporating Principles and Parameters into Rev 0 for submittal in May. Request for extension will be submitted.
9	Central Plateau Source Outer Area	200-CW-1, 200-CW-3, and 200-OA-1 Outer Area	TSDs - Closure Plan for 216-B-3 Main Pond and 216-S-10 Pond and Ditch	M-037-03: Submit Revised Closure Plans Complete	Milestone Completed 4/18/2013	4/19/20137/17/2013	J. Sands	P. Baynes	N. Menard	Ecology	NOD was issued and response submitted. Major issues have been identified related to non-TSD past-practice contamination and these issues remain unresolved.
10	Central Plateau Groundwater	200-BP-5, 200-PO-1 200 East Area Groundwater	200-BP-5 RI Report	None		8/11/20159/25/2015	J. Morse	C.Wittreich	N. Menard	Ecology	RL Transmitted the Draft A 200-BP-5 RI report to the regulators for review on August 11, 2015. Ecology suspended their review on October 23, 2015. On February 9, Ecology issued a letter indicating they will restart their review, require a minimum of 4 months to complete their review and require additional fate and transport modeling information.

(Information current as of 3/10/16)

Note: Blue text reflects changes from previous quarter. Shading discriminates change in ROD Area Location from adjacent rows.

TPA Decision Document List

	Geographical Areas	ROD Area Location	Document	Milestone	Milestone Due Date	Regulatory	Review	DOE Lead	Contractor Lead	Regulatory Lead	Agency	Comments/Issues
11	Central Plateau Groundwater	200-BP-5, 200-PO-1 200 East Area Groundwater	200-PO-1 RI Report Addendum	None		8/11/2015	9/25/2015	J. Morse	C. Wittreich	N. Menard	Ecology	RL Transmitted the Draft A 200-PO-1 RI report addendum to the regulators for review on August 11, 2015. Ecology suspended their review on October 23, 2015. On February 9, Ecology issued a letter indicating they will restart their review, require a minimum of 4 months to complete their review and require additional fate and transport modeling information.
12	Central Plateau Groundwater	200-BP-5 200 East Area Groundwater	200-BP-5 EE/CA	None		6/11/2015	9/3/2015	J. Morse	C. Wittreich	N. Menard	Ecology	RL Transmitted the Draft A EE/CA report addendum to the regulators for review on June 11, 2015. Preliminary responses provided to Ecology's comments on October 1, 2015. Ecology responded on December 16th.
13	Central Plateau Groundwater	200-UP-1 200 West Area Groundwater	Technology Evaluation Plan	M-016-192: Submit I-129 Technology Evaluation Plan Draft A to EPA as defined in the 200-UP-1 RD/RA WP Complete	Milestone Completed 12/3/2015	6/18/2016	8/1/2016	K. Amrhein	PNNL	E. Laija	EPA	RL transmitted Draft A to EPA for review on December 3, 2015. Comments received from EPA on March 7, 2016.
14	River Corridor	100-BC-1, 100-BC-2, 100-BC-5 100-B/C	RI/FS Reports and Proposed Plan	M-015-79: Submit RI/FS Report and PP for 100-BC On Schedule	12/15/2016	12/16/2016	01/30/2017	G. Sinton	R. Evans	L. Buelow	EPA	RI/FS being revised in FY16 to incorporate additional data.
15	River Corridor	100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, 100-HR-3 100-D/H	RI/FS Reports and Proposed Plan	M-015-70-T01: Submit FS & PP for HR 1/2/3 and DR 1/2 Complete	Target Completed 12/14/2012			J. Hanson	M. Drewett	N. Menard	Ecology	ROD issuance scheduled for September 30, 2016.
16	River Corridor	100-KR-1, 100-KR-2, 100-KR-4 100-K	RI/FS Reports and Proposed Plan	M-015-66-T01: Submit RI/FS Report and PP for 100-K. Complete	Target Completed 9/21/2011			J. Hanson	M. Drewett	C. Guzzetti	EPA	The characterization boreholes at 100-KE Reactor waste sites completed in September 2015. Field Investigation report, including PNNL leach testing results, to be submitted in May 2016. RI/FS rewrite scheduled to begin in FY2017.
17	River Corridor	100-NR-1, 100-NR-2 100-N	RI/FS Reports and Proposed Plan	M-015-75: Submit FS/PP for NR 1/2 Complete	Milestone Completed 6/24/2013	6/25/2013	10/2/2013	G. Sinton	B. Faught	A. Boyd	Ecology	Ecology is not reviewing the PP until RI/FS comment resolution is complete. Disposition meetings with ECY are ongoing. Based on discussions, Ecology is preparing to grant an extension to the comment resolution (A. Boyd). The extension will allow time for submittal of a draft Rev 0 RI.
18	River Corridor	100-NR-1, 100-NR-2 100-N	Remedial Design / Remedial Action Work Plans	None		10/22/2015	12/6/2015	G. Sinton	B. Faught	A. Boyd	Ecology	RL Transmitted the Revision 2, Draft A 100-NR-2 RD/RAWP and SAP to the regulators for review on October 22, 2015. Waiting on comments.
19	Central Plateau Groundwater	200-BP-5	200-BP-5 Sampling and Analysis Plan	None		TBD	TBD	J. Hanson	C. Wittreich	N. Menard	Ecology	Regulator review of SAP currently delayed pending resolution of groundwater modeling issue.
20	Central Plateau Groundwater	200-BP-5	LLBG WMA-1, RCRA Groundwater Monitoring Plan	None		10/7/2015	11/9/2015	D. Hildebrand	B. Faught	D. Goswami	Ecology	PRC reviewed the RCR with Ecology January 18, 2016. Will not be issued until template updates resulting from Ecology comments on all the plans have been incorporated and the plan has been updated with these changes. Waiting for comments from Ecology on WMA A/AX and SWL.
21	Central Plateau Groundwater	200-BP-5	LLBG WMA-2, RCRA Groundwater Monitoring Plan	None		TBD	TBD	D. Hildebrand	B. Faught	D. Goswami	Ecology	Submittal pending TSD designation removal.
22	Central Plateau Groundwater	200-PO-1	200-PO-1 Sampling and Analysis Plan	None		TBD	TBD	J. Hanson	C. Wittreich	N. Menard	Ecology	Regulator review of SAP currently delayed pending resolution of groundwater modeling issue.
23	Central Plateau Groundwater	200-PO-1	216-A-29, RCRA Groundwater Monitoring Plan	None		TBD	TBD	D. Hildebrand	B. Faught	D. Goswami	Ecology	Site put into assessment, interim status groundwater monitoring plan comments received from Ecology February 4, 2016. Interim status plan deprioritized, waiting for Ecology comments on assessment plan.
24	Central Plateau Groundwater	200-PO-1	216-A-36B, RCRA Groundwater Monitoring Plan	None		10/7/2015	11/6/2015	D. Hildebrand	B. Faught	D. Goswami	Ecology	Comments received from Ecology February 8, 2016. Anticipated that the RCR will be reviewed at the April 19, 2016 Ecology Meeting.
25	Central Plateau Groundwater	200-PO-1	216-A-37-1, RCRA Groundwater Monitoring Plan	None		10/7/2015	11/6/2015	D. Hildebrand	B. Faught	D. Goswami	Ecology	Comments received from Ecology February 12, 2016. Anticipated that the RCR will be reviewed at the April 19, 2016 Ecology Meeting.
26	Central Plateau Groundwater	200-PO-1	216-B-3, RCRA Groundwater Monitoring Plan	None		TBD	TBD	D. Hildebrand	B. Faught	D. Goswami	Ecology	Comments received from Ecology March 8, 2016. Anticipated that the RCR will be reviewed at a future Ecology Meeting.
27	Central Plateau Groundwater	200-PO-1	NRDWL, RCRA Groundwater Monitoring Plan	None		10/7/2015	11/9/2015	D. Hildebrand	B. Faught	D. Goswami	Ecology	PRC reviewed the RCR with Ecology January 18, 2016. Will not be issued until template updates resulting from Ecology comments on all the plans have been incorporated and the plan has been updated with these changes. Waiting for comments from Ecology on WMA A/AX and SWL.
28	Central Plateau Groundwater	200-PO-1	SWL, Groundwater Monitoring Plan	None		TBD	TBD	D. Hildebrand	B. Faught	D. Goswami	Ecology	Currently in Ecology Review, 30 day turn around time requested per RL 1/12/16 letter. Waiting for comments (delinquent).
29	Central Plateau Groundwater	200-PO-1	SST WMA-A-AX, RCRA Groundwater Assessment Plan	None		10/7/2015	11/6/2015	D. Hildebrand	B. Faught	D. Goswami	Ecology	Currently in Ecology Review, 30 day turn around time requested per RL 10/7/2015 letter. Waiting on comments (delinquent).
30	Central Plateau Groundwater	200-ZP-1	LLBG WMA-3, RCRA Final Status Groundwater Monitoring Plan	None		TBD	TBD	D. Hildebrand	B. Faught	D. Goswami	Ecology	Ecology will report on progress during the monthly TPA SWOC Project Management Meetings per Ecology Letter: 16-NWP-034
31	Central Plateau Groundwater	200-UP-1	216-S-10, RCRA Groundwater Monitoring Plan	None		10/7/2015	11/6/2015	D. Hildebrand	B. Faught	D. Goswami	Ecology	Comments received from Ecology February 12, 2016. Anticipated that the RCR will be reviewed at the May 17, 2016 Ecology Meeting.
32	River Corridor Groundwater	300-FF-5	300 APT, RCRA Groundwater Monitoring Plan	None		TBD	TBD	D. Hildebrand	B. Faught	D. Goswami	Ecology	Comments received from Ecology February 2, 2016. Anticipated that the RCR will be reviewed at the March 16, 2016 Ecology Meeting.
33	River Corridor Groundwater	100-HR-3	183-H, RCRA Groundwater Monitoring Plan	None		10/7/2015	11/6/2015	D. Hildebrand	B. Faught	D. Goswami	Ecology	Reviewed the RCR with Ecology January 18, 2016. Will not be issued until template updates resulting from Ecology comments on all the plans have been incorporated and the plan has been updated with these changes. Waiting for comments from Ecology on WMA A/AX and SWL.

(Information current as of 3/10/16)

Note: Blue text reflects changes from previous quarter. Shading discriminates change in ROD Area Location from adjacent rows.